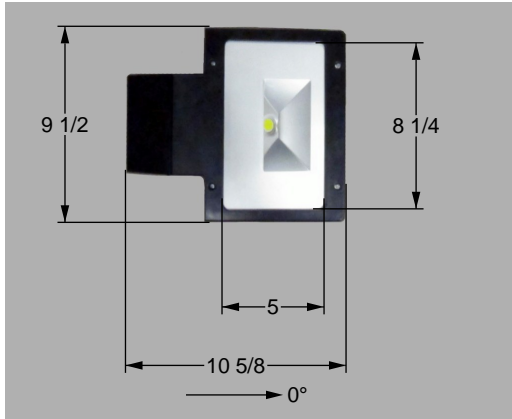
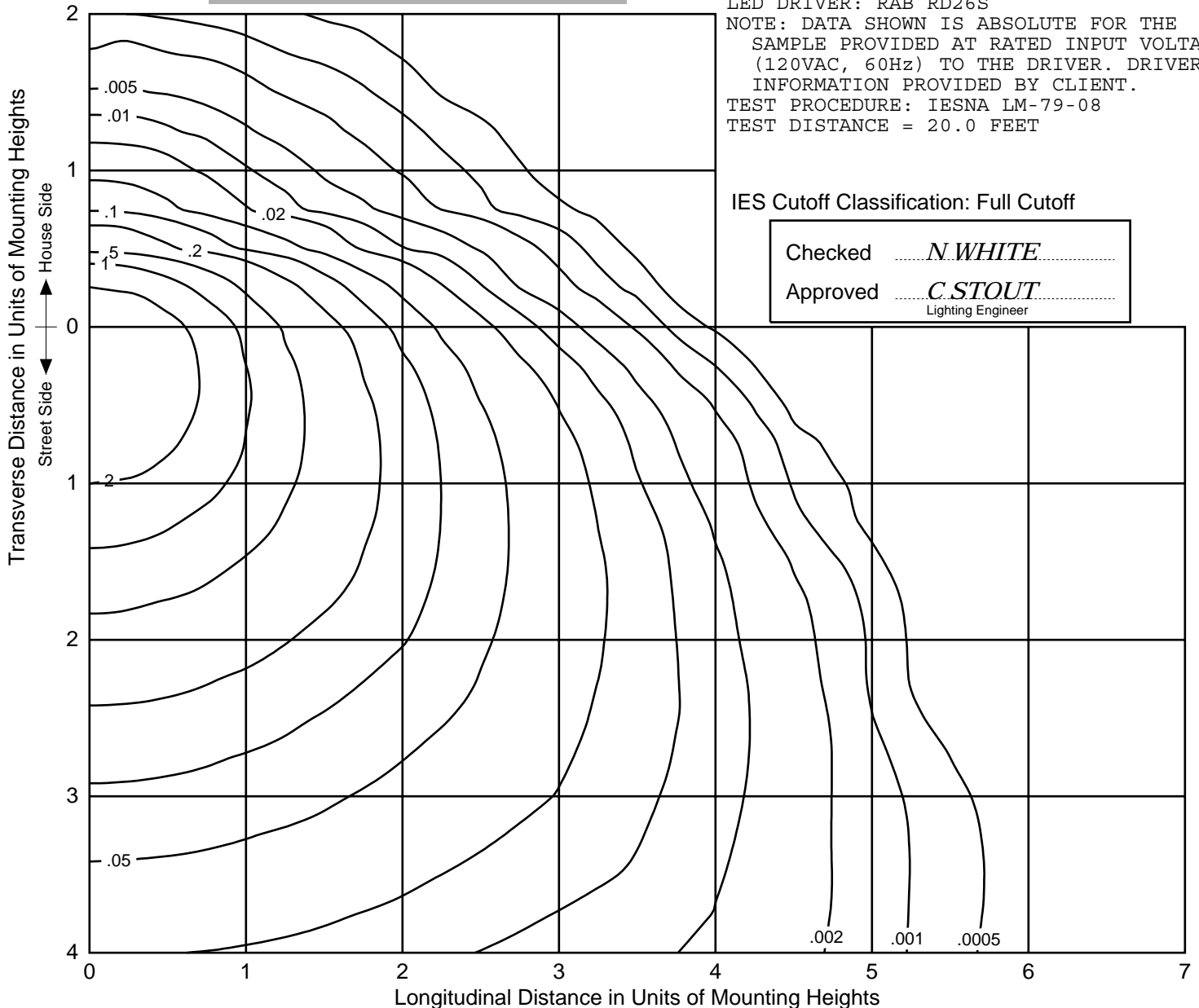


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
 Values based on 15 foot mounting height.

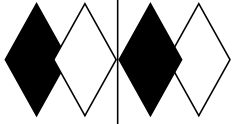


REPORT NUMBER: ITL80285
 ISSUE DATE: 12/30/13 PAGE: 1 OF 8
 PREPARED FOR: RAB LIGHTING, INC.
 CATALOG NUMBER: WPLED26N (WALLPACK) - ALED26N (AREA LIGHTER)
 LUMINAIRE: CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 1 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.
 LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED 33-DEGREES FROM VERTICAL BASE-UP POSITION.
 TOTAL INPUT WATTS = 29.7 AT 120.0 VOLTS
 LED DRIVER: RAB RD26S
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. DRIVER INFORMATION PROVIDED BY CLIENT.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 20.0 FEET



IES Cutoff Classification: Full Cutoff

Checked <i>N. WHITE</i>
Approved <i>C. STOUT</i>
	Lighting Engineer



REPORT NUMBER: ITL80285
ISSUE DATE: 12/30/13 PAGE: 2 OF 8
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED26N (WALLPACK) -
ALED26N (AREA LIGHTER)

LUMINAIRE: CAST FINNED METAL HOUSING,
MACHINED METAL HEAT SINK, 1 CIRCUIT
BOARD WITH 1 LED, MOLDED PLASTIC
REFLECTOR WITH SEMI-SPECULAR FINISH,
CLEAR FLAT GLASS LENS IN CAST BROWN
PAINTED METAL FRAME.

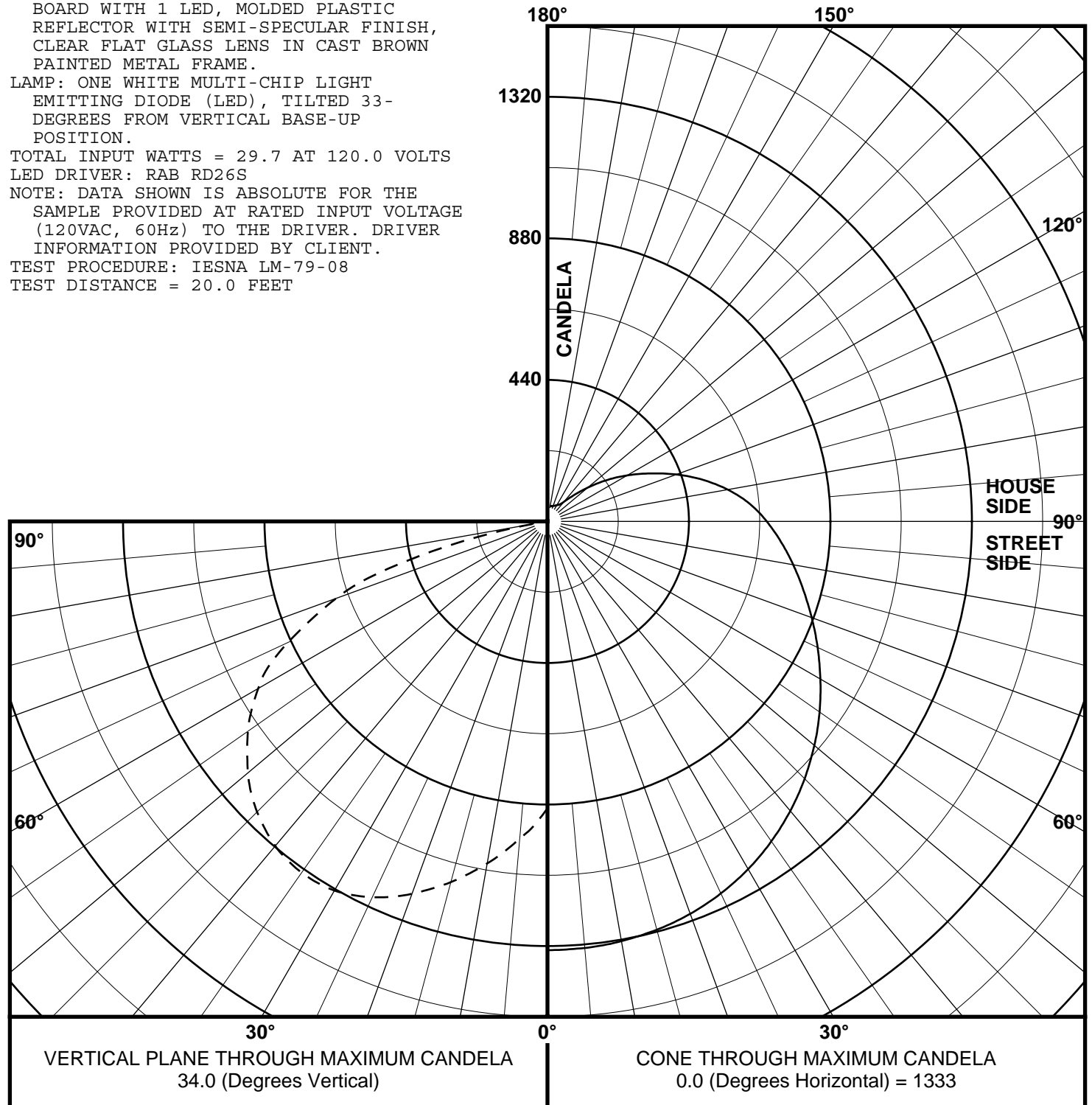
LAMP: ONE WHITE MULTI-CHIP LIGHT
EMITTING DIODE (LED), TILTED 33-
DEGREES FROM VERTICAL BASE-UP
POSITION.

TOTAL INPUT WATTS = 29.7 AT 120.0 VOLTS
LED DRIVER: RAB RD26S

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE DRIVER. DRIVER
INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 20.0 FEET

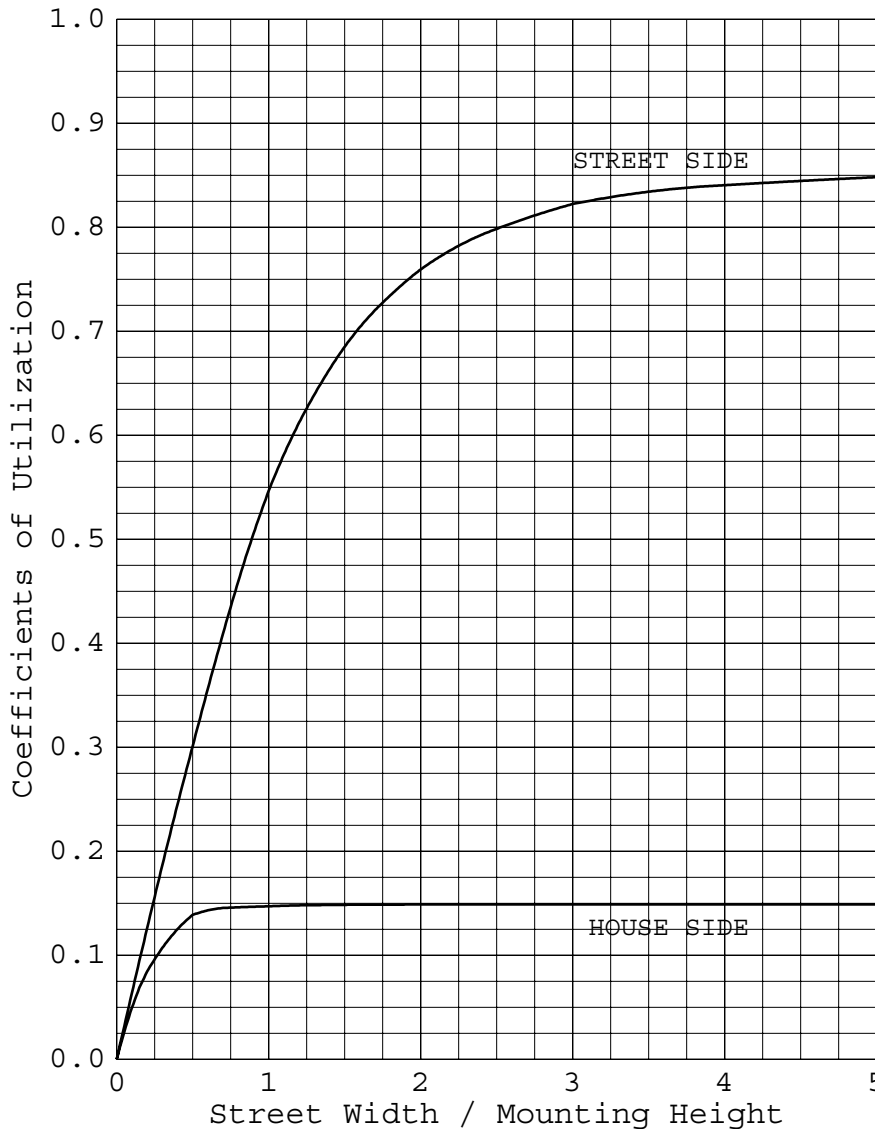
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



REPORT NUMBER: ITL80285
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PAGE: 3 OF 8

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	2054	85.1
DOWNWARD HOUSE SIDE	361	14.9
DOWNWARD TOTAL	2415	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	2415	100.0

EFFICACY = 81.3 lm/W

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



INDEPENDENT TESTING LABORATORIES, INC.
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FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	2054.	85.1	
FL (0- 30)	445.9	18.5	
FM (30- 60)	1111.8	46.0	
FH (60- 80)	488.2	20.2	G0
FVH(80- 90)	7.9	0.3	G0
BACK LIGHT	361.	14.9	
BL (0- 30)	211.8	8.8	B1
BM (30- 60)	139.1	5.8	B0
BH (60- 80)	10.1	0.4	B0 G0
BVH(80- 90)	0.0	0.0	G0
UPLIGHT	0.	0.0	
UL (90-100)	0.0	0.0	U0
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	2415.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B1 U0 G0



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PAGE: 5 OF 8

CANDELA TABULATION

	LATERAL ANGLE											
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	3.	2.	2.	2.	2.	2.	1.	1.	0.	0.	0.	
	9.	9.	9.	8.	7.	5.	4.	2.	1.	0.	0.	
V	19.	18.	19.	18.	16.	43.	14.	5.	2.	1.	1.	
E	56.	54.	67.	92.	128.	187.	97.	25.	4.	2.	1.	
R	222.	219.	235.	262.	291.	330.	242.	116.	30.	5.	2.	
T	406.	404.	420.	444.	455.	434.	341.	231.	103.	29.	10.	
I	583.	581.	587.	583.	559.	548.	423.	301.	191.	79.	34.	
C	700.	699.	691.	678.	660.	653.	520.	371.	246.	127.	72.	
A	794.	794.	794.	778.	759.	727.	592.	444.	307.	178.	117.	
L	890.	895.	889.	872.	837.	786.	650.	503.	364.	231.	166.	
	979.	975.	965.	939.	899.	836.	703.	552.	413.	280.	215.	
A	1039.	1036.	1024.	997.	952.	882.	749.	598.	457.	326.	263.	
N	1091.	1089.	1075.	1048.	999.	924.	791.	639.	498.	371.	310.	
G	1138.	1135.	1121.	1093.	1042.	958.	826.	678.	538.	415.	355.	
L	1177.	1177.	1162.	1135.	1080.	990.	861.	717.	577.	458.	399.	
E	1216.	1216.	1200.	1173.	1112.	1018.	892.	753.	617.	500.	442.	
	1250.	1247.	1234.	1205.	1142.	1044.	922.	787.	656.	541.	484.	
	1277.	1275.	1262.	1231.	1166.	1067.	949.	820.	693.	580.	525.	
	1299.	1298.	1285.	1251.	1183.	1087.	973.	848.	728.	618.	565.	
	1317.	1316.	1301.	1265.	1198.	1105.	995.	876.	760.	655.	603.	
	1328.	1326.	1310.	1272.	1208.	1119.	1013.	899.	788.	687.	638.	
	1333.	1331.	1314.	1276.	1213.	1129.	1028.	919.	814.	717.	670.	
	1333.	1331.	1314.	1276.	1214.	1131.	1033.	927.	824.	729.	682.	
	1325.	1322.	1305.	1265.	1210.	1134.	1047.	951.	858.	771.	728.	
	1289.	1287.	1269.	1237.	1188.	1123.	1049.	971.	890.	816.	778.	
	1232.	1229.	1216.	1189.	1149.	1097.	1039.	976.	911.	850.	819.	
	1161.	1158.	1147.	1128.	1098.	1058.	1016.	969.	921.	876.	851.	
	1080.	1078.	1070.	1057.	1038.	1009.	982.	951.	921.	891.	874.	
	990.	990.	986.	977.	968.	955.	942.	927.	913.	896.	888.	
	892.	892.	892.	892.	892.	892.	892.	892.	892.	892.	892.	

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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PAGE: 6 OF 8

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE							
	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
V 82.5	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
E 80.0	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
R 77.5	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.
T 75.0	3.	2.	1.	1.	1.	0.	0.	0.	0.	0.
I 72.5	11.	3.	2.	1.	1.	1.	0.	0.	0.	0.
C 70.0	29.	5.	4.	2.	2.	1.	1.	1.	0.	0.
A 67.5	60.	8.	5.	4.	3.	2.	2.	1.	1.	1.
L 65.0	101.	14.	7.	5.	4.	3.	2.	2.	2.	2.
62.5	146.	27.	9.	7.	5.	4.	4.	3.	3.	3.
A 60.0	192.	49.	12.	9.	7.	6.	5.	5.	5.	4.
N 57.5	237.	80.	15.	12.	10.	8.	7.	7.	6.	6.
G 55.0	283.	117.	20.	14.	12.	11.	10.	9.	9.	8.
L 52.5	328.	158.	34.	18.	16.	14.	13.	12.	11.	11.
E 50.0	372.	201.	54.	22.	19.	18.	16.	15.	15.	14.
47.5	417.	247.	86.	27.	23.	22.	21.	19.	18.	18.
45.0	460.	294.	128.	37.	28.	27.	26.	24.	23.	23.
42.5	501.	343.	176.	58.	34.	31.	31.	30.	29.	29.
40.0	542.	390.	227.	94.	43.	37.	35.	34.	34.	34.
37.5	581.	437.	280.	142.	61.	45.	41.	40.	39.	39.
35.0	617.	482.	332.	200.	95.	57.	50.	45.	44.	44.
34.0 <<	631.	500.	353.	223.	114.	64.	54.	49.	47.	47.
30.0	681.	567.	439.	314.	210.	131.	85.	68.	64.	64.
25.0	737.	643.	536.	432.	338.	261.	202.	166.	151.	150.
20.0	786.	711.	628.	546.	470.	405.	352.	318.	301.	299.
15.0	826.	769.	708.	650.	594.	547.	508.	482.	468.	467.
10.0	857.	820.	781.	744.	709.	680.	655.	638.	629.	629.
5.0	879.	860.	843.	826.	810.	795.	783.	776.	771.	772.
0.0	892.	892.	892.	892.	892.	892.	892.	892.	892.	892.

CONE OF MAXIMUM CANDELA



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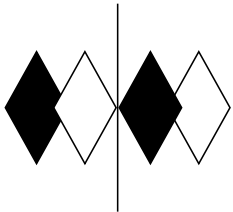
PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	21
5- 10	62
10- 15	100
15- 20	133
20- 25	160
25- 30	181
30- 35	197
35- 40	209
40- 45	216
45- 50	217
50- 55	212
55- 60	201
60- 65	182
65- 70	153
70- 75	111
75- 80	52
80- 85	7
85- 90	1
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	84
0- 20	317
0- 30	658
0- 40	1064
0- 50	1496
0- 60	1909
0- 70	2244
0- 80	2407
0- 90	2415
0-100	2415
0-110	2415
0-120	2415
0-130	2415
0-140	2415
0-150	2415
0-160	2415
0-170	2415
0-180	2415



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PAGE: 8 OF 8

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

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Page 1 of 4

REPORT NUMBER: ITL80288
DATE: 12/31/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED26N (WALLPACK) - ALED26N (AREA LIGHTER)

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 1 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED 33-DEGREES FROM VERTICAL BASE-UP POSITION.

DRIVER: RAB RD26S

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120.0 AND 277.0 VAC, 60Hz) TO THE LED DRIVER.

	Calibration Due:
INSTRUMENTS:	Associated Power Technologies APT5010 AC Power Source N/A
	Yokogawa WT210 Digital Power Meter #6 10/31/14
	Ocean Optics QE65000 Spectroradiometer 10/17/14
	ITL 1.5m Diameter Integrating Sphere S15-2, 4PI Geometry 10/17/14

OBJECT OF TEST: Measure the Total Radiant Flux*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,1-14), Chromaticity Coordinates (x,y; u'v'), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF) and Total Harmonic Distortion (THD) to the test sample. Report Off-State Power. Measure electrical data including Total Harmonic Distortion (THD) at maximum rated voltage.

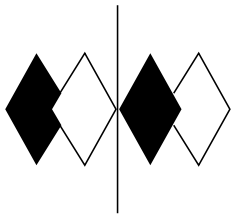
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120.0 VAC input. Electrical data was also recorded at maximum nominal rated input voltage (277.0 VAC). All testing performed in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology. Off-State Power was reported with no voltage applied to the sample.

*NOTE: Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

RESULTS: (continued subsequent pages)

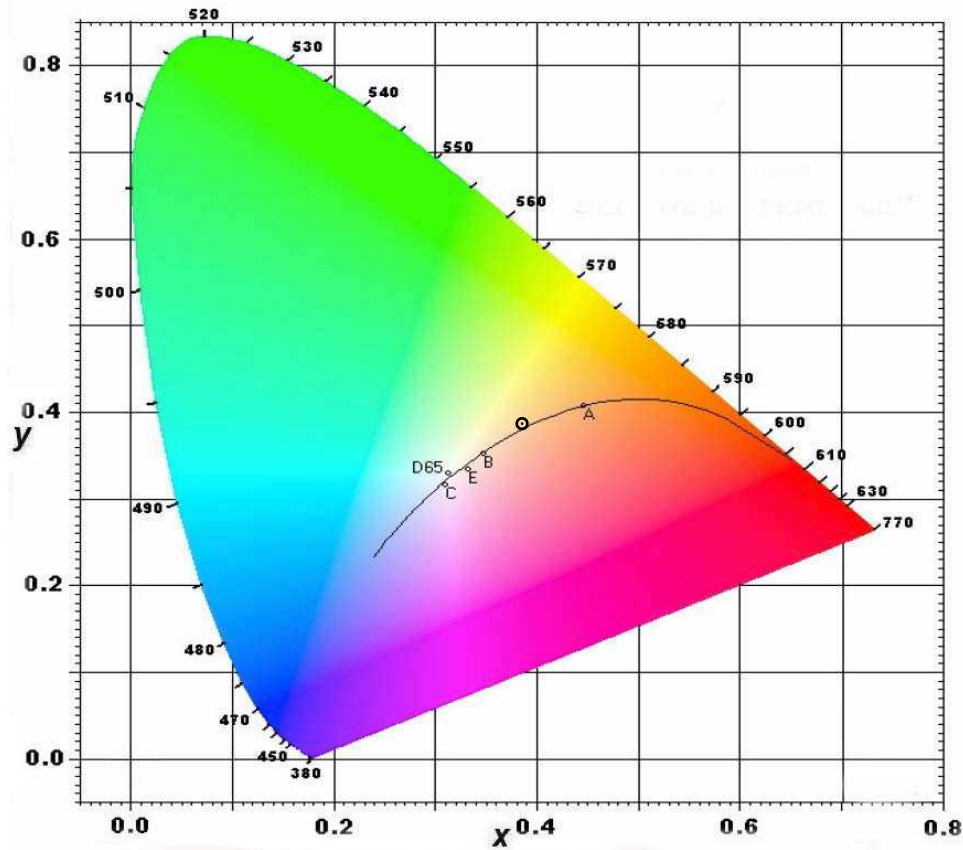
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Checked	<i>N THOMAS</i>
Approved	<i>P O'CONNOR</i> SPHERE LAB SUPERVISOR



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CIE Chromaticity Diagram





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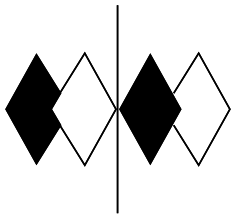
RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3852
Chromaticity Ordinate y	0.3865
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2243
Chromaticity Ordinate v'	0.5065
Correlated Color Temp CCT (K)	3946
ANSI C78.377-2008 Duv	0.003
Total Radiant Flux (milliWatts)	7370 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.249
Input Power (Watts)	29.7
Input Power Factor (%)	99.4
Input Current THD (%)	8.4
Input Voltage THD (%)	0.3
Off-State Power (Watts)	
	0.0
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.118
Input Power (Watts)	29.6
Input Power Factor (%)	90.6
Input Current THD (%)	10.7
Input Voltage THD (%)	0.3

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	83
R1 Light greyish red	82
R2 Dark greyish yellow	87
R3 Strong yellowish green	92
R4 Moderate yellowish green	85
R5 Light bluish green	82
R6 Light blue	84
R7 Light violet	88
R8 Light reddish purple	67
R9 Strong red	12
R10 Strong yellow	70
R11 Strong green	85
R12 Strong blue	63
R13 Light yellowish pink (skin)	83
R14 Moderate olive green (leaf)	96

*NOTE:

Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.



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NVLAP LAB CODE: 200925-0

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REPORT NUMBER: ITL80288
DATE: 12/31/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED26N (WALLPACK) - ALED26N (AREA LIGHTER)

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.198	515	28.358	650	22.518
385	0.223	520	30.185	655	20.240
390	0.263	525	31.322	660	18.113
395	0.325	530	32.067	665	16.122
400	0.430	535	32.495	670	14.283
405	0.696	540	32.752	675	12.631
410	1.163	545	33.051	680	11.114
415	1.935	550	33.408	685	9.757
420	3.457	555	33.959	690	8.542
425	6.102	560	34.761	695	7.468
430	10.347	565	35.754	700	6.543
435	16.314	570	36.889	705	5.703
440	24.728	575	38.099	710	4.964
445	35.454	580	39.235	715	4.325
450	39.287	585	40.195	720	3.763
455	30.839	590	40.943	725	3.276
460	21.321	595	41.291	730	2.850
465	15.836	600	41.144	735	2.479
470	11.946	605	40.603	740	2.160
475	9.781	610	39.617	745	1.878
480	9.539	615	38.210	750	1.637
485	10.630	620	36.424	755	1.429
490	12.782	625	34.376	760	1.251
495	15.868	630	32.125	765	1.097
500	19.405	635	29.705	770	0.960
505	22.902	640	27.276	775	0.841
510	25.941	645	24.866	780	0.738

