

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296648

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

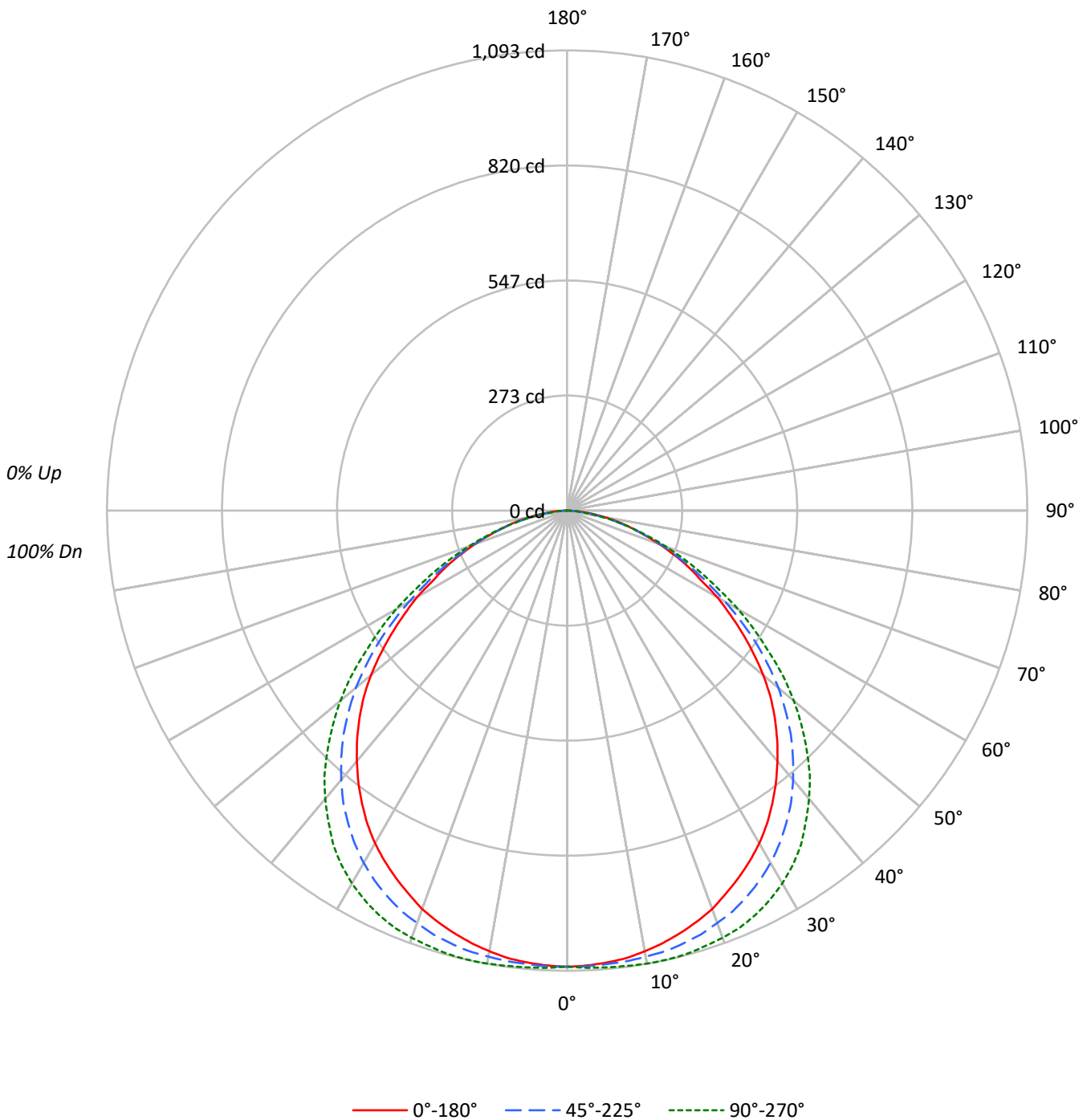
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2915	2915	2915
5°	2911	2921	2942
10°	2905	2940	2986
15°	2894	2966	3039
20°	2885	2986	3092
25°	2859	3002	3145
30°	2836	3003	3176
35°	2791	2980	3181
40°	2731	2933	3141
45°	2654	2859	3064
50°	2547	2742	2943
55°	2385	2568	2742
60°	2216	2336	2526
65°	2032	2103	2245
70°	1839	1869	1956
75°	1620	1581	1640
80°	1409	1294	1237
85°	1145	858	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.4
10°-20°	300.8	9.9
20°-30°	466.1	15.4
30°-40°	567.2	18.7
40°-50°	577.7	19.0
50°-60°	487.2	16.1
60°-70°	329.6	10.9
70°-80°	164.7	5.4
80°-90°	36.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	870.0	28.7
0°-40°	1437.3	47.4
0°-60°	2502.1	82.5
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1078	1080	1082	1087	1089	102
15°	1039	1046	1065	1083	1091	293
25°	963	978	1011	1044	1059	444
35°	850	868	907	950	968	531
45°	698	710	751	790	805	537
55°	508	516	547	573	584	455
65°	319	314	330	345	352	315
75°	156	150	152	154	158	167
85°	37	32	28	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.4	1083.4	1083.4	1083.4	1083.4
2.5°	1081.5	1081.5	1083.4	1085.3	1087.1
5°	1077.8	1079.7	1081.5	1087.1	1089.0
7.5°	1072.3	1074.1	1079.7	1087.1	1090.8
10°	1063.0	1066.7	1076.0	1087.1	1092.7
12.5°	1051.9	1057.4	1072.3	1085.3	1092.7
15°	1038.9	1046.3	1064.8	1083.4	1090.8
17.5°	1024.0	1033.3	1055.6	1076.0	1085.3
20°	1007.3	1018.5	1042.6	1068.6	1079.7
22.5°	985.1	999.9	1029.6	1059.3	1072.3
25°	962.8	977.7	1011.0	1044.4	1059.3
27.5°	938.7	955.4	990.6	1027.7	1042.6
30°	912.7	927.6	966.5	1005.5	1022.2
32.5°	883.0	897.9	938.7	979.5	998.1
35°	849.7	868.2	907.2	949.8	968.4
37.5°	814.4	831.1	873.8	914.6	931.3
40°	777.3	794.0	834.8	877.5	894.2
42.5°	738.3	755.0	794.0	834.8	853.4
45°	697.5	710.5	751.3	790.3	805.1
47.5°	654.9	664.1	703.1	740.2	755.0
50°	608.5	617.8	654.9	688.3	703.1
52.5°	558.4	565.8	601.1	630.7	647.4
55°	508.3	515.7	547.3	573.2	584.4
57.5°	458.2	461.9	489.8	515.7	526.9
60°	411.8	411.8	434.1	454.5	469.3
62.5°	358.0	363.6	380.3	400.7	406.3
65°	319.1	313.5	330.2	345.1	352.5
67.5°	274.6	270.8	282.0	295.0	298.7
70°	233.7	228.2	237.5	244.9	248.6
72.5°	191.1	189.2	192.9	198.5	200.4
75°	155.8	150.3	152.1	154.0	157.7
77.5°	124.3	115.0	116.9	115.0	116.9
80°	90.9	83.5	83.5	81.6	79.8
82.5°	61.2	57.5	53.8	50.1	48.2
85°	37.1	31.5	27.8	24.1	24.1
87.5°	14.8	11.1	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)