

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: P296641

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296641
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-LD5-35-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2440.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

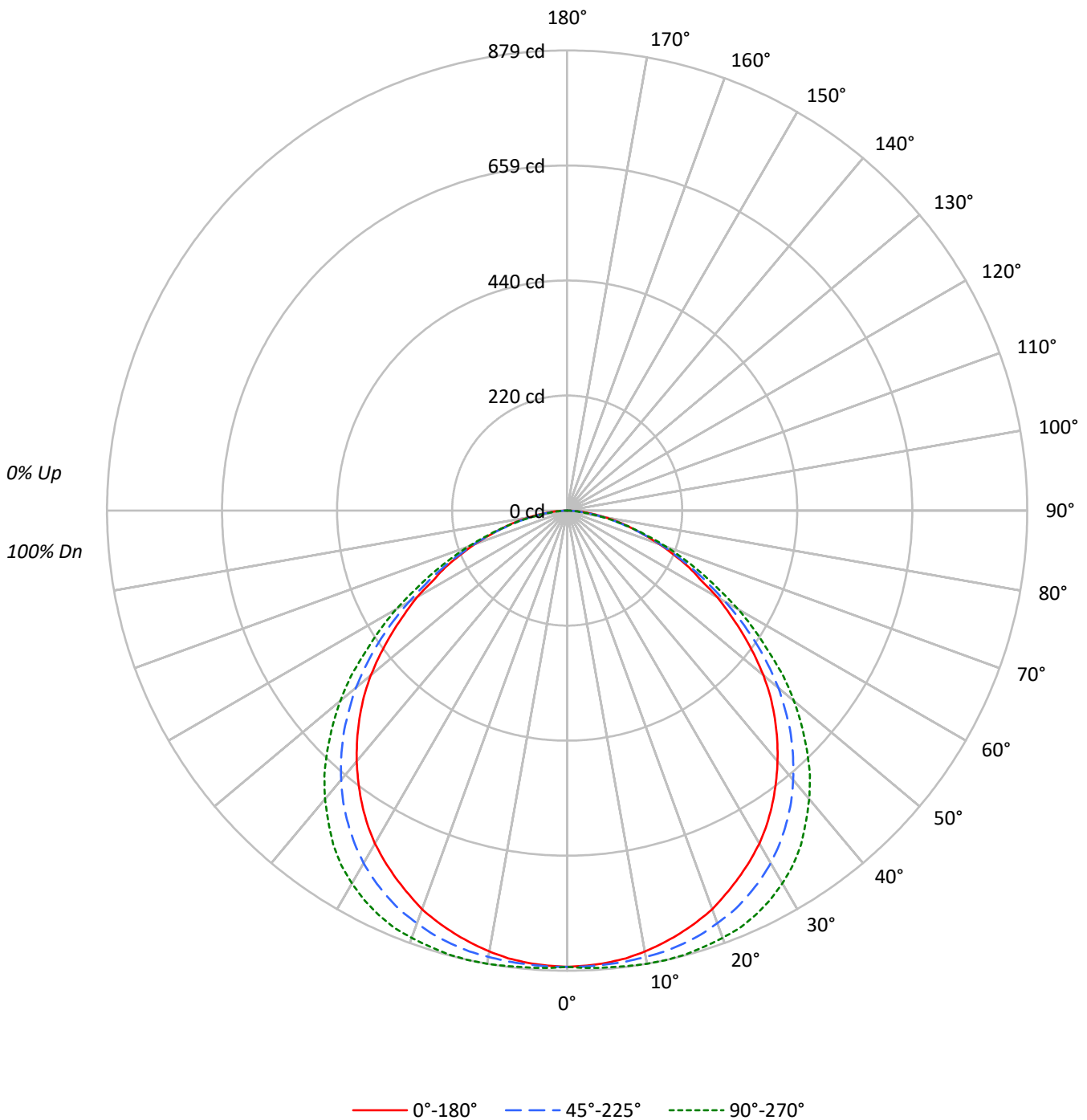
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2345	2345	2345
5°	2342	2350	2367
10°	2337	2365	2402
15°	2328	2387	2445
20°	2321	2402	2487
25°	2300	2415	2530
30°	2282	2416	2555
35°	2245	2397	2559
40°	2197	2359	2527
45°	2136	2300	2465
50°	2049	2205	2368
55°	1918	2066	2206
60°	1783	1879	2032
65°	1635	1692	1806
70°	1479	1503	1574
75°	1304	1273	1319
80°	1133	1041	995
85°	920	692	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.4
10°-20°	242.0	9.9
20°-30°	374.9	15.4
30°-40°	456.3	18.7
40°-50°	464.7	19.0
50°-60°	391.9	16.1
60°-70°	265.1	10.9
70°-80°	132.5	5.4
80°-90°	29.5	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°	699.9	28.7
0°-40°	1156.2	47.4
0°-60°	2012.9	82.5
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	867	869	870	875	876	82
15°	836	842	857	872	878	236
25°	775	786	813	840	852	357
35°	684	698	730	764	779	427
45°	561	572	604	636	648	432
55°	409	415	440	461	470	366
65°	257	252	266	278	284	254
75°	125	121	122	124	127	134
85°	30	25	22	19	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.6	871.6	871.6	871.6	871.6
2.5°	870.1	870.1	871.6	873.1	874.6
5°	867.1	868.6	870.1	874.6	876.1
7.5°	862.6	864.1	868.6	874.6	877.5
10°	855.2	858.1	865.6	874.6	879.0
12.5°	846.2	850.7	862.6	873.1	879.0
15°	835.8	841.7	856.7	871.6	877.5
17.5°	823.8	831.3	849.2	865.6	873.1
20°	810.4	819.3	838.7	859.6	868.6
22.5°	792.5	804.4	828.3	852.2	862.6
25°	774.6	786.5	813.4	840.2	852.2
27.5°	755.2	768.6	797.0	826.8	838.7
30°	734.3	746.2	777.6	808.9	822.3
32.5°	710.4	722.3	755.2	788.0	802.9
35°	683.5	698.5	729.8	764.1	779.0
37.5°	655.2	668.6	702.9	735.8	749.2
40°	625.3	638.8	671.6	705.9	719.3
42.5°	594.0	607.4	638.8	671.6	686.5
45°	561.2	571.6	604.4	635.8	647.7
47.5°	526.8	534.3	565.6	595.5	607.4
50°	489.5	497.0	526.8	553.7	565.6
52.5°	449.2	455.2	483.5	507.4	520.9
55°	408.9	414.9	440.3	461.2	470.1
57.5°	368.6	371.6	394.0	414.9	423.8
60°	331.3	331.3	349.2	365.6	377.6
62.5°	288.0	292.5	305.9	322.4	326.8
65°	256.7	252.2	265.7	277.6	283.6
67.5°	220.9	217.9	226.8	237.3	240.3
70°	188.0	183.6	191.0	197.0	200.0
72.5°	153.7	152.2	155.2	159.7	161.2
75°	125.4	120.9	122.4	123.9	126.9
77.5°	100.0	92.5	94.0	92.5	94.0
80°	73.1	67.2	67.2	65.7	64.2
82.5°	49.3	46.3	43.3	40.3	38.8
85°	29.8	25.4	22.4	19.4	19.4
87.5°	11.9	9.0	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)