

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: P296675

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296675
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-LD5-31-RDP-UNV-L92765-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: 2182.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

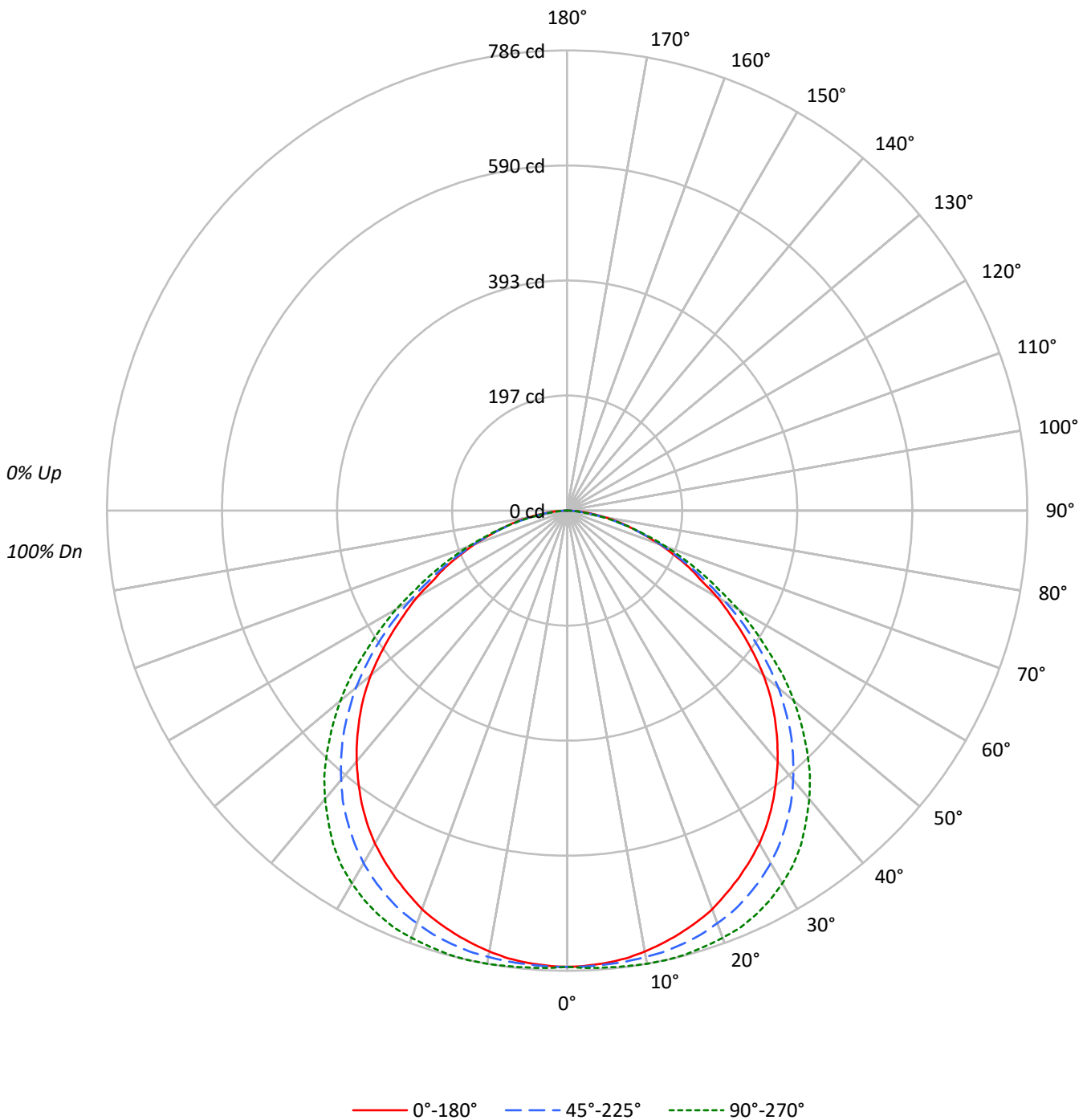
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2097	2097	2097
5°	2095	2102	2116
10°	2090	2115	2148
15°	2082	2134	2186
20°	2075	2148	2224
25°	2057	2160	2263
30°	2040	2160	2285
35°	2008	2144	2289
40°	1964	2110	2260
45°	1910	2057	2204
50°	1833	1972	2117
55°	1716	1847	1972
60°	1595	1681	1817
65°	1462	1513	1615
70°	1323	1344	1407
75°	1166	1137	1179
80°	1013	931	890
85°	824	618	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.4
10°-20°	216.4	9.9
20°-30°	335.3	15.4
30°-40°	408.1	18.7
40°-50°	415.6	19.0
50°-60°	350.5	16.1
60°-70°	237.1	10.9
70°-80°	118.5	5.4
80°-90°	26.4	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°	625.9	28.7
0°-40°	1034.0	47.4
0°-60°	1800.1	82.5
0°-90°	2182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	775	777	778	782	783	74
15°	747	753	766	779	785	211
25°	693	703	727	751	762	319
35°	611	625	653	683	697	382
45°	502	511	540	568	579	386
55°	366	371	394	412	420	327
65°	230	226	238	248	254	227
75°	112	108	109	111	113	120
85°	27	23	20	17	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.4	779.4	779.4	779.4	779.4
2.5°	778.1	778.1	779.4	780.8	782.1
5°	775.4	776.7	778.1	782.1	783.4
7.5°	771.4	772.7	776.7	782.1	784.8
10°	764.7	767.4	774.1	782.1	786.1
12.5°	756.7	760.7	771.4	780.8	786.1
15°	747.4	752.7	766.1	779.4	784.8
17.5°	736.7	743.4	759.4	774.1	780.8
20°	724.7	732.7	750.1	768.7	776.7
22.5°	708.7	719.4	740.7	762.1	771.4
25°	692.7	703.3	727.4	751.4	762.1
27.5°	675.3	687.3	712.7	739.4	750.1
30°	656.6	667.3	695.3	723.4	735.4
32.5°	635.3	646.0	675.3	704.7	718.0
35°	611.3	624.6	652.6	683.3	696.7
37.5°	585.9	597.9	628.6	658.0	670.0
40°	559.2	571.2	600.6	631.3	643.3
42.5°	531.2	543.2	571.2	600.6	613.9
45°	501.8	511.2	540.5	568.5	579.2
47.5°	471.1	477.8	505.8	532.5	543.2
50°	437.8	444.4	471.1	495.1	505.8
52.5°	401.7	407.1	432.4	453.8	465.8
55°	365.7	371.0	393.7	412.4	420.4
57.5°	329.7	332.3	352.3	371.0	379.0
60°	296.3	296.3	312.3	327.0	337.7
62.5°	257.6	261.6	273.6	288.3	292.3
65°	229.6	225.6	237.6	248.2	253.6
67.5°	197.5	194.9	202.9	212.2	214.9
70°	168.2	164.2	170.8	176.2	178.8
72.5°	137.5	136.1	138.8	142.8	144.1
75°	112.1	108.1	109.4	110.8	113.4
77.5°	89.4	82.7	84.1	82.7	84.1
80°	65.4	60.1	60.1	58.7	57.4
82.5°	44.0	41.4	38.7	36.0	34.7
85°	26.7	22.7	20.0	17.4	17.4
87.5°	10.7	8.0	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)