

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: P296677

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296677
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-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: 2311.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

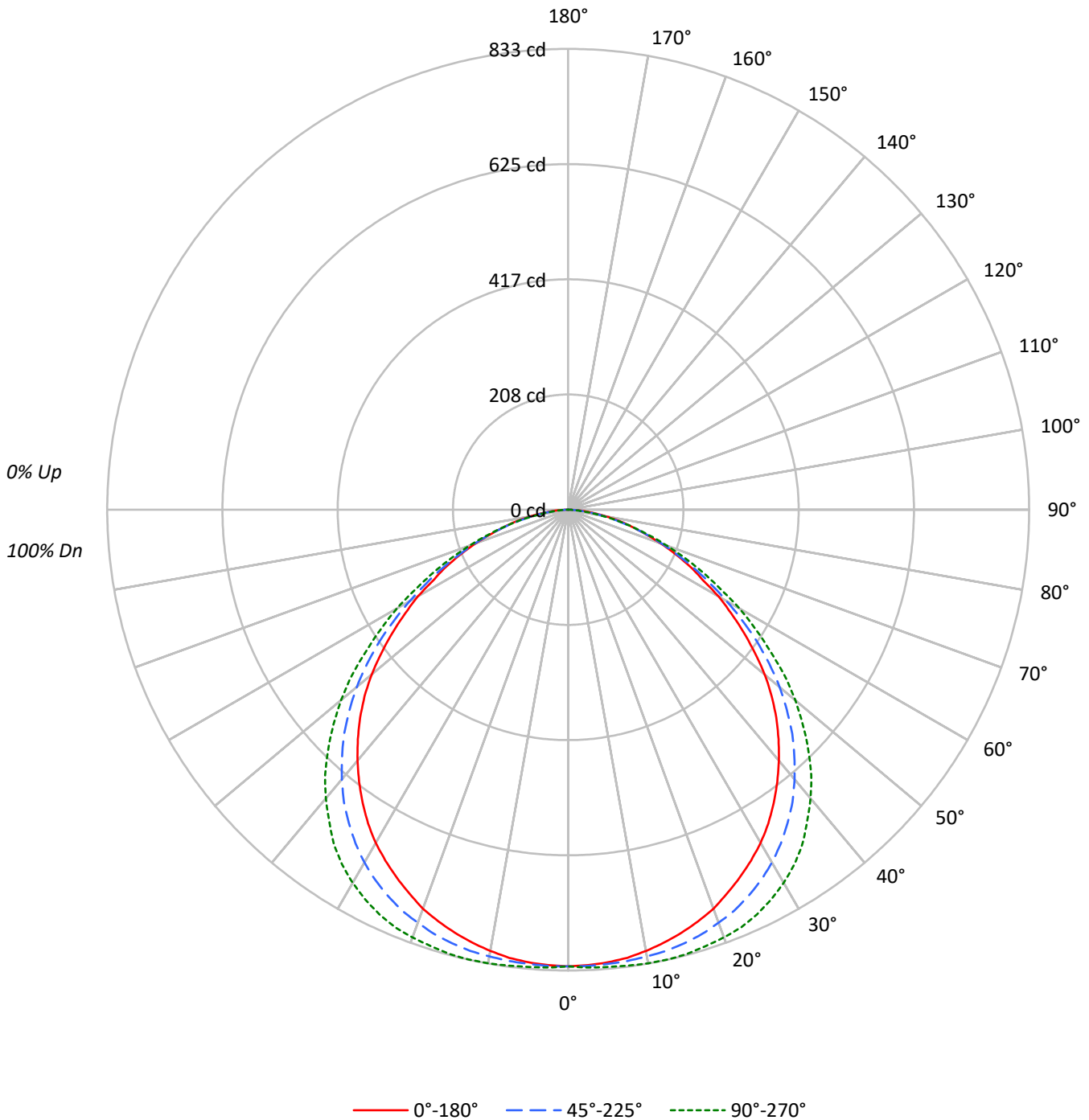
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2221	2221	2221
5°	2219	2226	2241
10°	2213	2240	2275
15°	2205	2260	2316
20°	2198	2275	2356
25°	2178	2287	2396
30°	2161	2288	2420
35°	2127	2271	2424
40°	2081	2235	2393
45°	2023	2179	2335
50°	1941	2089	2243
55°	1817	1956	2089
60°	1689	1780	1925
65°	1548	1602	1710
70°	1401	1423	1490
75°	1234	1205	1249
80°	1074	986	942
85°	874	655	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	229.2	9.9
20°-30°	355.1	15.4
30°-40°	432.2	18.7
40°-50°	440.2	19.0
50°-60°	371.2	16.1
60°-70°	251.1	10.9
70°-80°	125.5	5.4
80°-90°	27.9	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°	662.9	28.7
0°-40°	1095.1	47.4
0°-60°	1906.5	82.5
0°-90°	2311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	821	823	824	828	830	78
15°	792	797	811	826	831	223
25°	734	745	770	796	807	338
35°	647	662	691	724	738	405
45°	532	541	572	602	614	409
55°	387	393	417	437	445	346
65°	243	239	252	263	269	240
75°	119	114	116	117	120	127
85°	28	24	21	18	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.5	825.5	825.5	825.5	825.5
2.5°	824.1	824.1	825.5	826.9	828.3
5°	821.3	822.7	824.1	828.3	829.7
7.5°	817.0	818.4	822.7	828.3	831.2
10°	809.9	812.8	819.8	828.3	832.6
12.5°	801.5	805.7	817.0	826.9	832.6
15°	791.6	797.2	811.4	825.5	831.2
17.5°	780.3	787.3	804.3	819.8	826.9
20°	767.5	776.0	794.4	814.2	822.7
22.5°	750.6	761.9	784.5	807.1	817.0
25°	733.6	744.9	770.4	795.8	807.1
27.5°	715.2	728.0	754.8	783.1	794.4
30°	695.5	706.8	736.4	766.1	778.9
32.5°	672.8	684.1	715.2	746.3	760.5
35°	647.4	661.5	691.2	723.7	737.9
37.5°	620.5	633.3	665.8	696.9	709.6
40°	592.3	605.0	636.1	668.6	681.3
42.5°	562.6	575.3	605.0	636.1	650.2
45°	531.5	541.4	572.5	602.2	613.5
47.5°	499.0	506.0	535.7	564.0	575.3
50°	463.6	470.7	499.0	524.4	535.7
52.5°	425.5	431.1	458.0	480.6	493.3
55°	387.3	393.0	417.0	436.8	445.3
57.5°	349.1	352.0	373.2	393.0	401.4
60°	313.8	313.8	330.8	346.3	357.6
62.5°	272.8	277.1	289.8	305.3	309.6
65°	243.1	238.9	251.6	262.9	268.6
67.5°	209.2	206.4	214.9	224.8	227.6
70°	178.1	173.9	180.9	186.6	189.4
72.5°	145.6	144.2	147.0	151.2	152.7
75°	118.7	114.5	115.9	117.3	120.1
77.5°	94.7	87.6	89.1	87.6	89.1
80°	69.3	63.6	63.6	62.2	60.8
82.5°	46.6	43.8	41.0	38.2	36.8
85°	28.3	24.0	21.2	18.4	18.4
87.5°	11.3	8.5	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)