

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: P296680

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296680
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

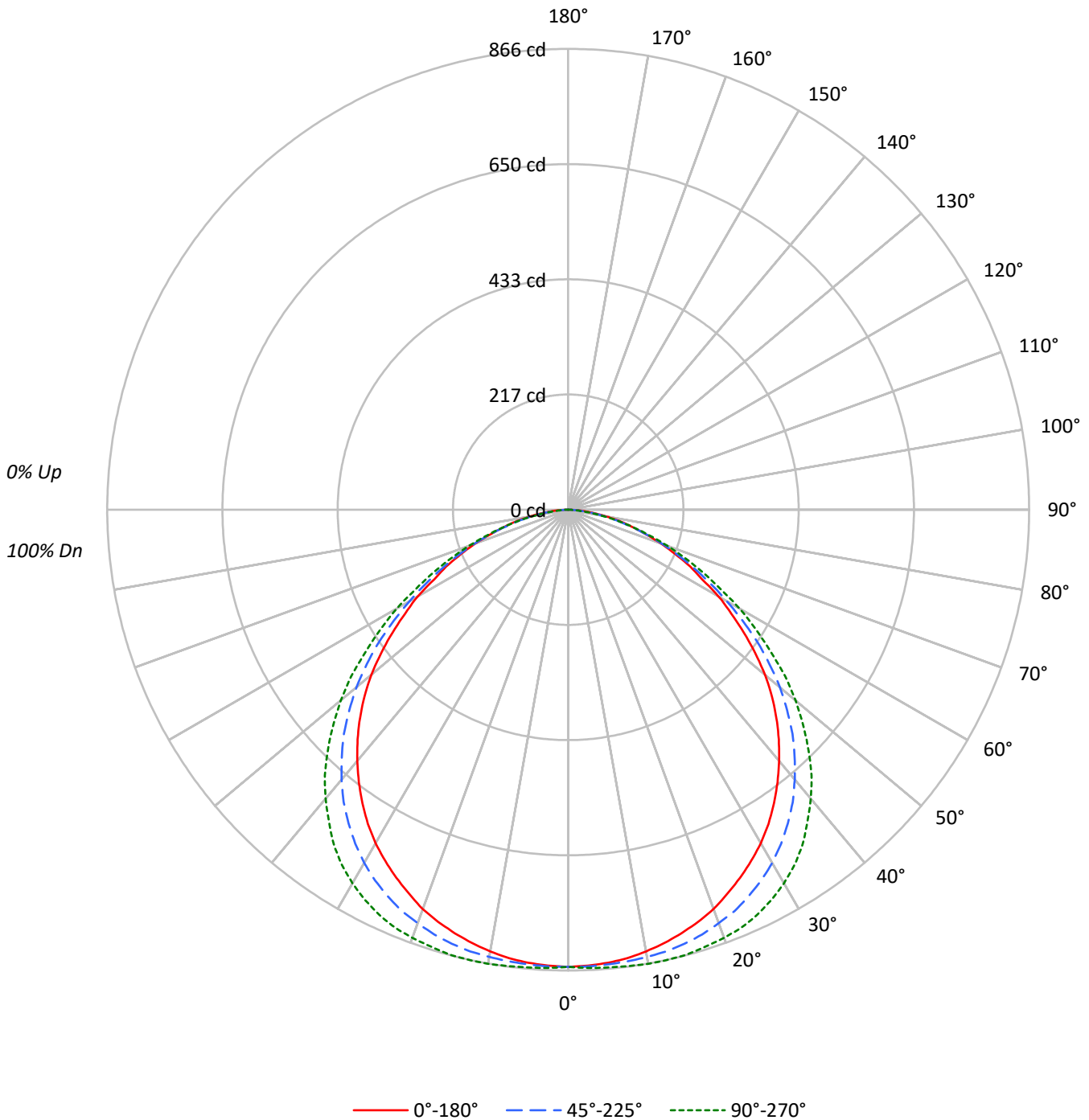
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2312	2312	2312
5°	2309	2317	2333
10°	2303	2331	2367
15°	2295	2352	2410
20°	2288	2367	2452
25°	2267	2380	2494
30°	2249	2381	2518
35°	2213	2363	2523
40°	2165	2325	2491
45°	2105	2267	2430
50°	2020	2174	2334
55°	1891	2036	2174
60°	1758	1852	2003
65°	1611	1667	1780
70°	1458	1482	1551
75°	1285	1254	1300
80°	1117	1026	981
85°	908	682	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.4
10°-20°	238.5	9.9
20°-30°	369.6	15.4
30°-40°	449.8	18.7
40°-50°	458.1	19.0
50°-60°	386.3	16.1
60°-70°	261.3	10.9
70°-80°	130.6	5.4
80°-90°	29.1	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°	689.9	28.7
0°-40°	1139.7	47.4
0°-60°	1984.0	82.5
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	855	856	858	862	864	81
15°	824	830	844	859	865	233
25°	764	775	802	828	840	352
35°	674	688	719	753	768	421
45°	553	563	596	627	638	426
55°	403	409	434	454	463	361
65°	253	249	262	274	280	250
75°	124	119	121	122	125	132
85°	29	25	22	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.1	859.1	859.1	859.1	859.1
2.5°	857.6	857.6	859.1	860.5	862.0
5°	854.7	856.1	857.6	862.0	863.5
7.5°	850.2	851.7	856.1	862.0	865.0
10°	842.9	845.8	853.2	862.0	866.4
12.5°	834.1	838.5	850.2	860.5	866.4
15°	823.8	829.7	844.4	859.1	865.0
17.5°	812.0	819.4	837.0	853.2	860.5
20°	798.8	807.6	826.7	847.3	856.1
22.5°	781.1	792.9	816.4	840.0	850.2
25°	763.5	775.2	801.7	828.2	840.0
27.5°	744.3	757.6	785.5	814.9	826.7
30°	723.7	735.5	766.4	797.3	810.5
32.5°	700.2	712.0	744.3	776.7	791.4
35°	673.7	688.4	719.3	753.2	767.9
37.5°	645.8	659.0	692.8	725.2	738.5
40°	616.4	629.6	662.0	695.8	709.0
42.5°	585.5	598.7	629.6	662.0	676.7
45°	553.1	563.4	595.8	626.7	638.4
47.5°	519.3	526.6	557.5	586.9	598.7
50°	482.5	489.8	519.3	545.7	557.5
52.5°	442.8	448.7	476.6	500.1	513.4
55°	403.1	408.9	434.0	454.5	463.4
57.5°	363.3	366.3	388.3	408.9	417.8
60°	326.6	326.6	344.2	360.4	372.2
62.5°	283.9	288.3	301.6	317.7	322.2
65°	253.0	248.6	261.8	273.6	279.5
67.5°	217.7	214.8	223.6	233.9	236.8
70°	185.3	180.9	188.3	194.2	197.1
72.5°	151.5	150.0	153.0	157.4	158.9
75°	123.6	119.2	120.6	122.1	125.0
77.5°	98.6	91.2	92.7	91.2	92.7
80°	72.1	66.2	66.2	64.7	63.3
82.5°	48.5	45.6	42.7	39.7	38.2
85°	29.4	25.0	22.1	19.1	19.1
87.5°	11.8	8.8	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)