

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: P295711

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

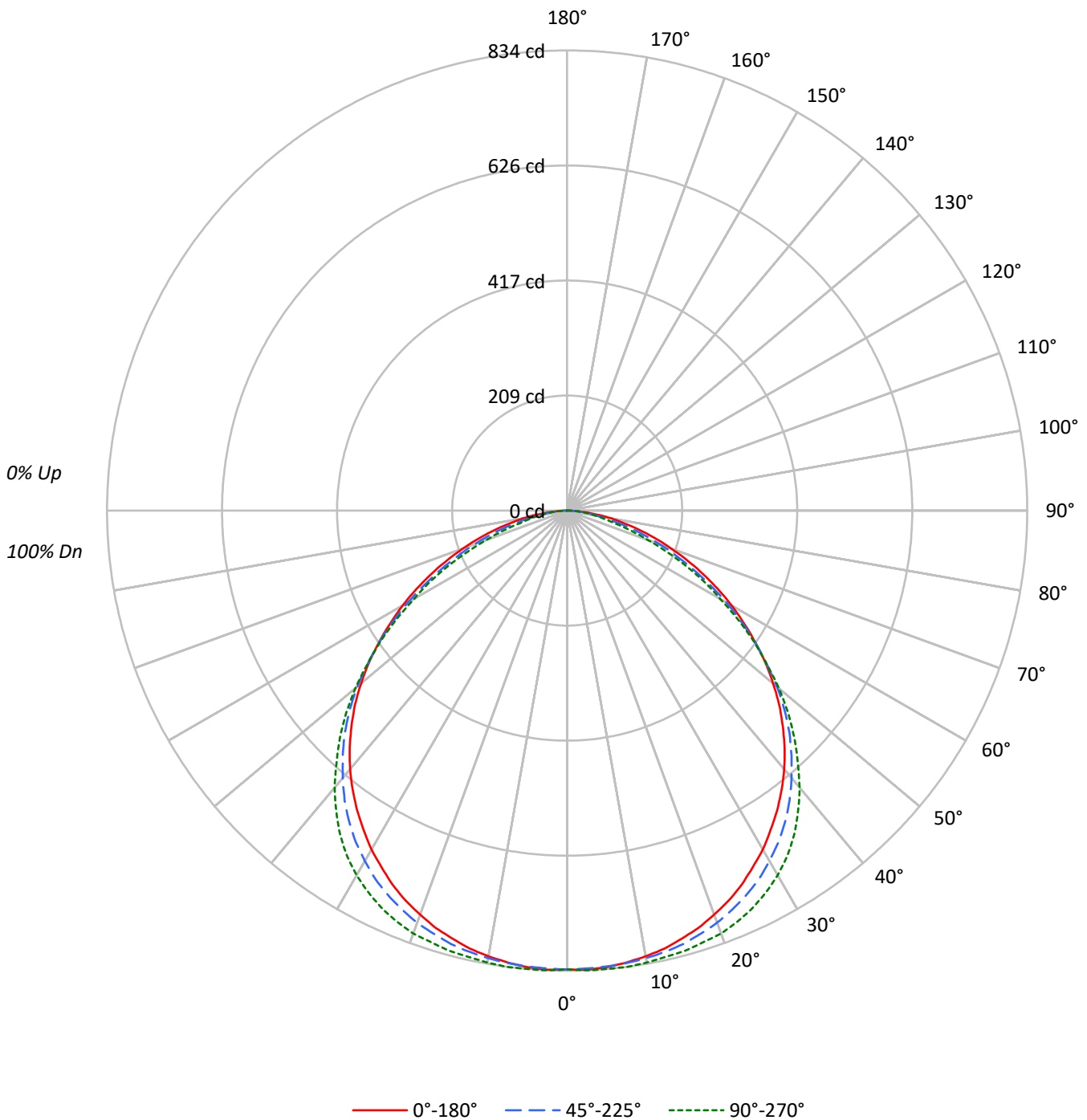
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2244	2240	2253
10°	2241	2251	2273
15°	2237	2266	2301
20°	2231	2277	2336
25°	2222	2283	2361
30°	2204	2279	2371
35°	2180	2262	2356
40°	2150	2222	2303
45°	2103	2168	2216
50°	2040	2079	2098
55°	1954	1948	1938
60°	1853	1792	1724
65°	1726	1603	1515
70°	1575	1404	1224
75°	1415	1166	916
80°	1258	851	798
85°	988	707	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.4
10°-20°	230.1	10.0
20°-30°	355.1	15.4
30°-40°	430.7	18.7
40°-50°	437.3	19.0
50°-60°	369.9	16.1
60°-70°	250.3	10.9
70°-80°	121.0	5.3
80°-90°	29.5	1.3
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°	664.4	28.8
0°-40°	1095.0	47.5
0°-60°	1902.2	82.6
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	831	831	829	833	834	79
15°	803	808	813	822	826	227
25°	748	754	769	788	795	345
35°	664	670	689	710	717	415
45°	553	554	570	581	582	426
55°	416	413	415	415	413	372
65°	271	260	252	241	238	269
75°	136	126	112	97	88	145
85°	32	25	23	23	23	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.7	831.7	831.7	831.7	831.7
2.5°	832.8	832.8	830.6	832.8	834.0
5°	830.6	830.6	829.4	832.8	834.0
7.5°	826.0	827.1	827.1	831.7	834.0
10°	820.3	822.5	823.7	830.6	831.7
12.5°	813.4	815.7	819.1	827.1	828.3
15°	803.1	807.7	813.4	822.5	826.0
17.5°	792.8	797.4	804.2	816.8	820.3
20°	779.1	784.8	795.1	810.0	815.7
22.5°	765.3	769.9	782.5	800.8	806.5
25°	748.2	753.9	768.8	788.2	795.1
27.5°	728.7	736.7	752.8	773.4	780.2
30°	709.3	716.2	733.3	756.2	763.1
32.5°	686.4	693.3	712.7	734.5	742.5
35°	663.5	670.4	688.7	710.4	717.3
37.5°	638.4	642.9	662.4	680.7	687.6
40°	612.0	615.5	632.6	650.9	655.5
42.5°	583.4	585.7	601.8	617.8	618.9
45°	552.6	553.7	569.7	581.2	582.3
47.5°	521.7	520.5	534.3	542.3	543.4
50°	487.3	487.3	496.5	501.1	501.1
52.5°	453.0	450.7	455.3	458.7	455.3
55°	416.4	413.0	415.3	415.3	413.0
57.5°	379.8	372.9	374.1	371.8	366.1
60°	344.3	336.3	332.9	324.9	320.3
62.5°	307.7	298.6	291.7	282.6	281.4
65°	271.1	259.7	251.7	241.4	238.0
67.5°	235.7	225.4	213.9	202.5	195.6
70°	200.2	188.8	178.5	163.6	155.6
72.5°	168.2	157.9	145.3	128.1	122.4
75°	136.1	125.8	112.1	97.2	88.1
77.5°	105.2	97.2	82.4	69.8	68.6
80°	81.2	72.1	54.9	51.5	51.5
82.5°	52.6	46.9	38.9	36.6	36.6
85°	32.0	25.2	22.9	22.9	22.9
87.5°	12.6	11.4	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)