

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: P295575

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L82765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

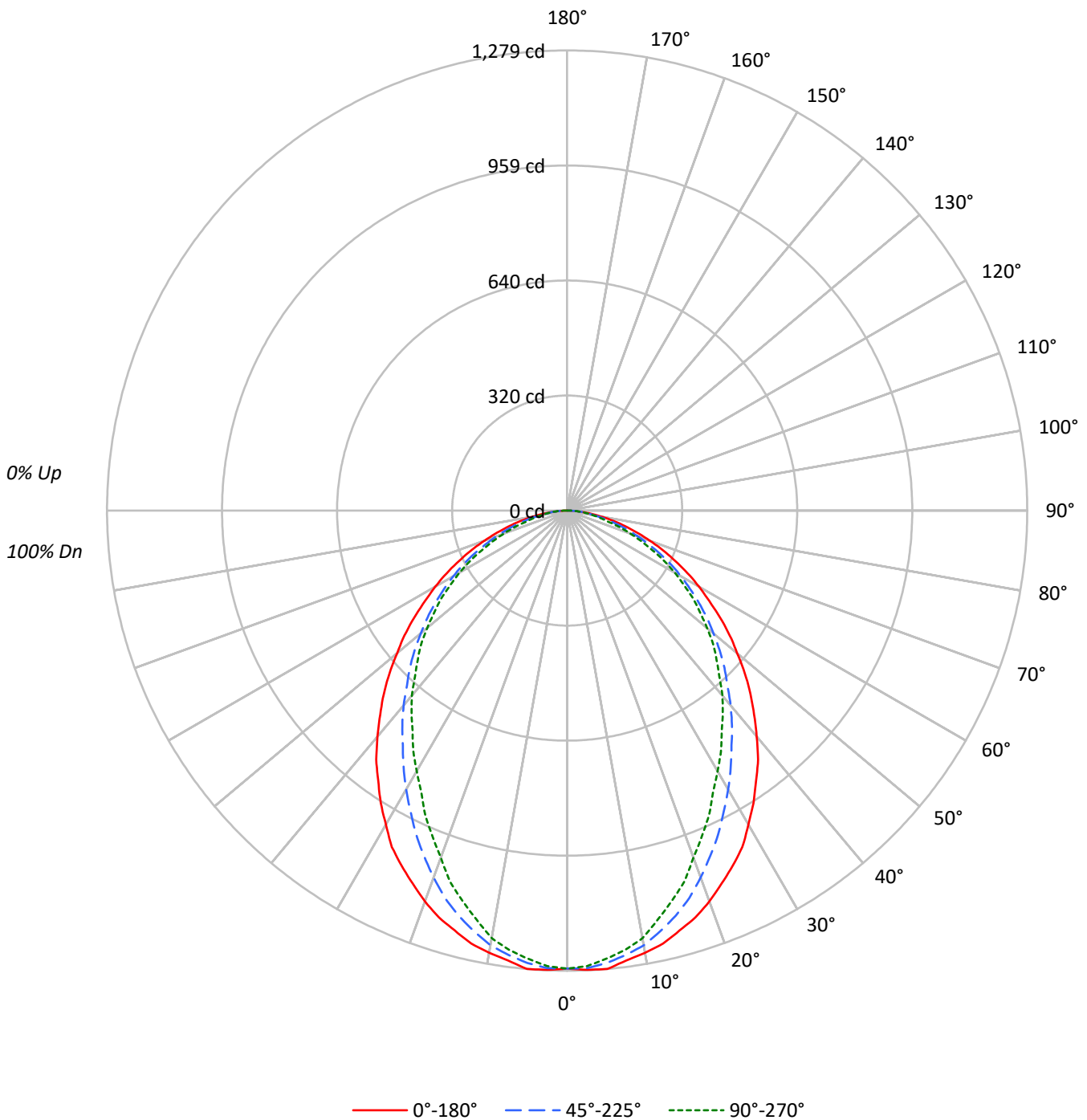
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3425	3425	3425
5°	3454	3410	3378
10°	3411	3352	3298
15°	3366	3247	3129
20°	3311	3108	2939
25°	3233	2949	2771
30°	3131	2782	2599
35°	3007	2616	2461
40°	2880	2483	2358
45°	2743	2353	2236
50°	2583	2223	2124
55°	2435	2098	2009
60°	2279	1968	1861
65°	2111	1818	1668
70°	1921	1633	1476
75°	1729	1460	1202
80°	1481	1189	1133
85°	1201	1130	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	4.3
10°-20°	327.1	11.7
20°-30°	459.1	16.4
30°-40°	509.2	18.2
40°-50°	488.9	17.5
50°-60°	409.7	14.7
60°-70°	287.6	10.3
70°-80°	150.2	5.4
80°-90°	42.0	1.5
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°	905.4	32.4
0°-40°	1414.6	50.6
0°-60°	2313.2	82.8
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1279	1262	1262	1254	1250	121
15°	1208	1187	1166	1135	1123	341
25°	1089	1050	993	945	933	501
35°	916	865	796	757	749	573
45°	721	665	618	595	588	555
55°	519	480	447	433	428	464
65°	332	309	286	268	262	329
75°	166	153	140	124	116	176
85°	39	37	37	37	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1277.7	1270.6	1272.9	1272.9	1267.0
5°	1278.8	1262.3	1262.3	1254.1	1250.5
7.5°	1261.1	1248.2	1245.8	1235.2	1231.6
10°	1248.2	1235.2	1226.9	1212.8	1206.9
12.5°	1232.8	1212.8	1197.4	1173.8	1164.4
15°	1208.1	1186.8	1165.6	1134.9	1123.1
17.5°	1185.6	1160.9	1129.0	1094.8	1081.8
20°	1156.1	1126.7	1085.4	1038.2	1026.4
22.5°	1121.9	1087.7	1039.3	988.6	979.2
25°	1088.9	1050.0	993.3	945.0	933.2
27.5°	1054.7	1007.5	942.6	890.7	878.9
30°	1007.5	959.1	895.4	844.7	836.4
32.5°	963.8	915.5	845.9	804.6	795.1
35°	915.5	864.7	796.3	757.4	749.1
37.5°	871.8	812.8	752.7	714.9	710.2
40°	819.9	766.8	706.7	678.3	671.3
42.5°	769.2	716.1	659.5	634.7	626.4
45°	720.8	665.4	618.2	594.6	587.5
47.5°	670.1	619.4	574.5	555.7	550.9
50°	617.0	572.2	530.9	513.2	507.3
52.5°	569.8	523.8	489.6	473.1	466.0
55°	519.1	480.2	447.1	433.0	428.2
57.5°	468.4	436.5	404.7	391.7	384.6
60°	423.5	391.7	365.7	350.4	345.7
62.5°	377.5	350.4	325.6	311.5	305.6
65°	331.5	309.1	285.5	267.8	261.9
67.5°	289.0	264.3	245.4	230.0	224.2
70°	244.2	226.5	207.6	193.5	187.6
72.5°	202.9	189.9	173.4	158.1	152.2
75°	166.3	153.4	140.4	123.9	115.6
77.5°	129.8	121.5	108.5	94.4	94.4
80°	95.6	90.8	76.7	74.3	73.1
82.5°	66.1	63.7	55.4	54.3	54.3
85°	38.9	36.6	36.6	36.6	36.6
87.5°	16.5	17.7	18.9	18.9	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)