

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: P295584

Luminaire Tested: **14RLN-LD5-31-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295584
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-LD5-31-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: 3261.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

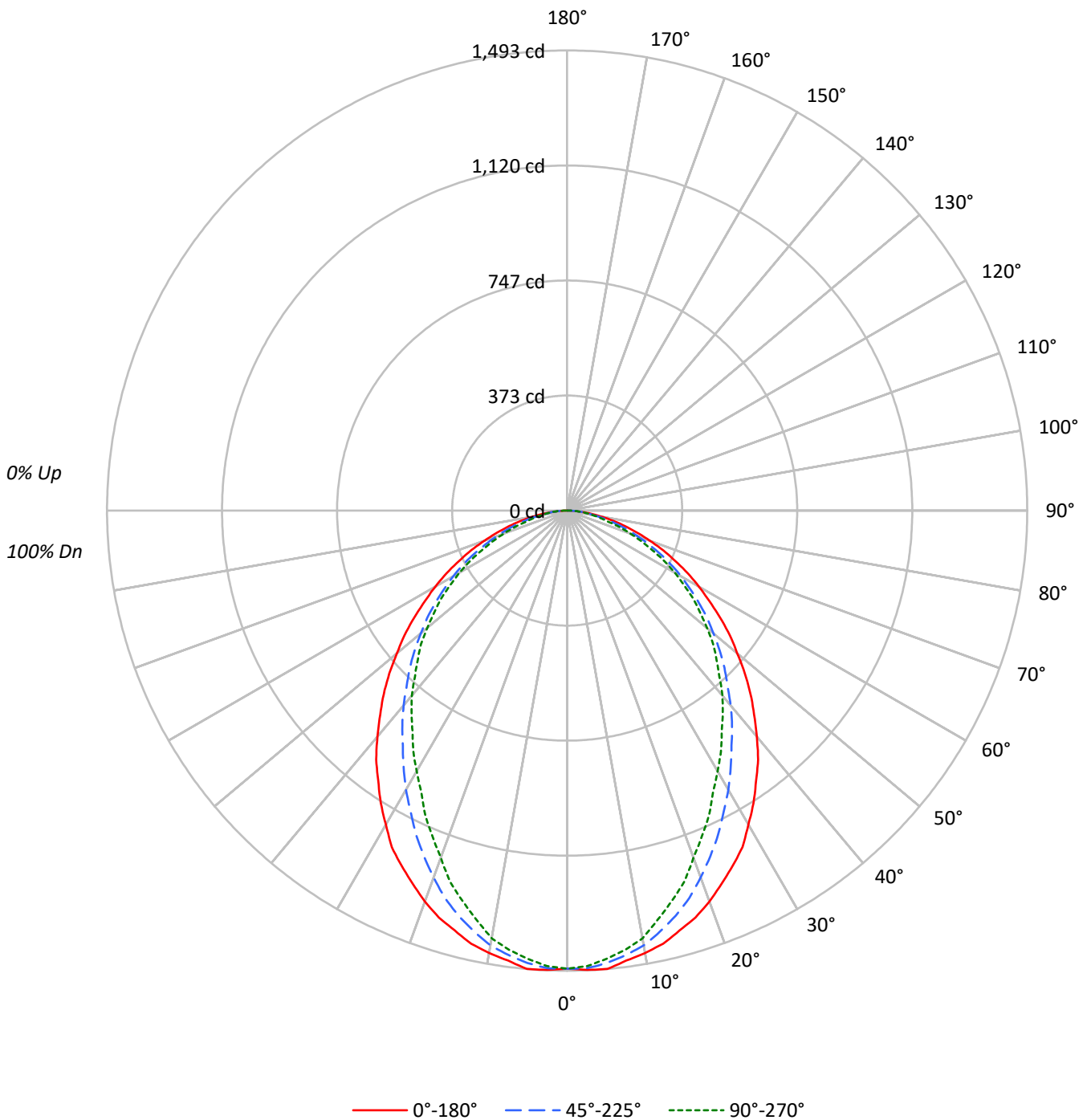
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3999	3999	3999
5°	4033	3981	3944
10°	3982	3914	3850
15°	3930	3791	3653
20°	3866	3629	3432
25°	3775	3444	3235
30°	3655	3249	3035
35°	3511	3054	2873
40°	3363	2898	2753
45°	3203	2747	2611
50°	3016	2595	2480
55°	2844	2449	2346
60°	2661	2298	2172
65°	2465	2122	1947
70°	2243	1907	1723
75°	2019	1704	1404
80°	1729	1387	1323
85°	1405	1318	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	4.3
10°-20°	381.9	11.7
20°-30°	536.0	16.4
30°-40°	594.6	18.2
40°-50°	570.8	17.5
50°-60°	478.3	14.7
60°-70°	335.8	10.3
70°-80°	175.3	5.4
80°-90°	49.1	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°	1057.1	32.4
0°-40°	1651.7	50.6
0°-60°	2700.8	82.8
0°-90°	3261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1493	1474	1474	1464	1460	141
15°	1410	1386	1361	1325	1311	398
25°	1271	1226	1160	1103	1090	585
35°	1069	1010	930	884	875	669
45°	842	777	722	694	686	648
55°	606	561	522	506	500	542
65°	387	361	333	313	306	385
75°	194	179	164	145	135	206
85°	46	43	43	43	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.2	1486.2	1486.2	1486.2	1486.2
2.5°	1491.7	1483.5	1486.2	1486.2	1479.3
5°	1493.1	1473.8	1473.8	1464.2	1460.1
7.5°	1472.5	1457.3	1454.6	1442.2	1438.0
10°	1457.3	1442.2	1432.5	1416.0	1409.1
12.5°	1439.4	1416.0	1398.1	1370.5	1359.5
15°	1410.5	1385.7	1360.9	1325.1	1311.3
17.5°	1384.3	1355.4	1318.2	1278.2	1263.1
20°	1349.9	1315.4	1267.2	1212.1	1198.4
22.5°	1309.9	1270.0	1213.5	1154.3	1143.3
25°	1271.4	1225.9	1159.8	1103.3	1089.5
27.5°	1231.4	1176.3	1100.6	1040.0	1026.2
30°	1176.3	1119.8	1045.5	986.2	976.6
32.5°	1125.3	1068.9	987.6	939.4	928.4
35°	1068.9	1009.6	929.8	884.3	874.7
37.5°	1017.9	949.0	878.8	834.7	829.2
40°	957.3	895.3	825.1	792.0	783.8
42.5°	898.1	836.1	770.0	741.1	731.4
45°	841.6	776.9	721.8	694.2	686.0
47.5°	782.4	723.1	670.8	648.8	643.3
50°	720.4	668.0	619.8	599.2	592.3
52.5°	665.3	611.6	571.6	552.3	544.1
55°	606.1	560.6	522.0	505.5	500.0
57.5°	546.8	509.6	472.5	457.3	449.0
60°	494.5	457.3	427.0	409.1	403.6
62.5°	440.8	409.1	380.2	363.6	356.8
65°	387.1	360.9	333.3	312.7	305.8
67.5°	337.5	308.5	286.5	268.6	261.7
70°	285.1	264.5	242.4	225.9	219.0
72.5°	236.9	221.8	202.5	184.6	177.7
75°	194.2	179.1	163.9	144.6	135.0
77.5°	151.5	141.9	126.7	110.2	110.2
80°	111.6	106.1	89.5	86.8	85.4
82.5°	77.1	74.4	64.7	63.4	63.4
85°	45.5	42.7	42.7	42.7	42.7
87.5°	19.3	20.7	22.0	22.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)