

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: P296335

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4338.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

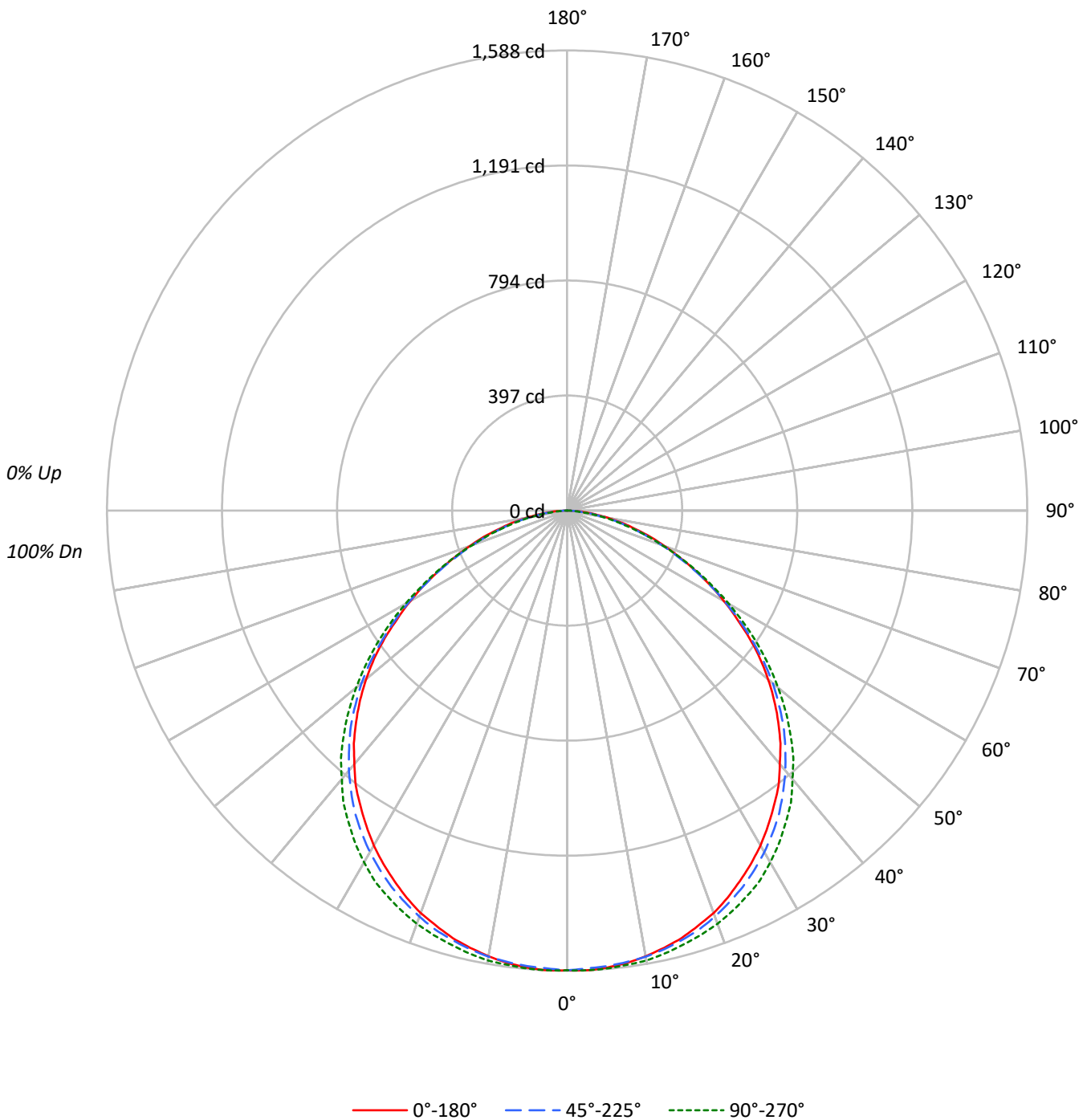
Input Watts (W): 39.525
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2134	2134	2134
5°	2138	2132	2143
10°	2134	2136	2154
15°	2127	2137	2159
20°	2116	2135	2173
25°	2094	2128	2179
30°	2073	2115	2178
35°	2043	2095	2160
40°	2006	2058	2125
45°	1960	2010	2073
50°	1895	1939	1991
55°	1803	1826	1880
60°	1683	1692	1736
65°	1546	1535	1572
70°	1405	1366	1373
75°	1249	1181	1172
80°	1084	969	944
85°	889	685	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.5
10°-20°	433.7	10.0
20°-30°	662.1	15.3
30°-40°	798.2	18.4
40°-50°	813.9	18.8
50°-60°	696.6	16.1
60°-70°	479.8	11.1
70°-80°	246.0	5.7
80°-90°	57.2	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°	1246.2	28.7
0°-40°	2044.4	47.1
0°-60°	3554.9	81.9
0°-90°	4338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1583	1580	1578	1583	1586	150
15°	1527	1526	1534	1545	1550	431
25°	1410	1415	1433	1458	1468	650
35°	1244	1249	1275	1303	1315	778
45°	1030	1032	1056	1083	1089	794
55°	768	764	778	795	801	686
65°	486	474	482	486	494	482
75°	240	230	227	227	226	259
85°	58	51	44	40	35	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1588.1	1584.8	1581.5	1584.8	1588.1
5°	1583.1	1579.8	1578.2	1583.1	1586.4
7.5°	1574.9	1571.6	1571.6	1578.2	1581.5
10°	1561.7	1560.1	1563.4	1570.0	1576.5
12.5°	1545.3	1545.3	1550.2	1558.4	1565.0
15°	1527.2	1525.5	1533.8	1545.3	1550.2
17.5°	1502.5	1504.1	1515.7	1528.8	1535.4
20°	1477.8	1479.5	1491.0	1509.1	1517.3
22.5°	1446.5	1449.8	1463.0	1486.0	1494.3
25°	1410.3	1415.3	1433.4	1458.1	1467.9
27.5°	1374.1	1379.1	1398.8	1426.8	1440.0
30°	1334.6	1341.2	1361.0	1390.6	1402.1
32.5°	1290.2	1295.1	1319.8	1349.4	1361.0
35°	1244.1	1249.1	1275.4	1303.4	1314.9
37.5°	1198.0	1198.0	1224.4	1257.3	1268.8
40°	1142.1	1143.7	1171.7	1203.0	1209.6
42.5°	1089.4	1089.4	1114.1	1143.7	1155.3
45°	1030.2	1031.8	1056.5	1082.8	1089.4
47.5°	969.3	969.3	990.7	1015.4	1022.0
50°	905.1	901.8	926.5	946.3	951.2
52.5°	839.3	834.4	854.1	870.6	877.1
55°	768.5	763.6	778.4	794.9	801.4
57.5°	694.5	687.9	704.3	719.2	722.4
60°	625.4	615.5	628.6	636.9	645.1
62.5°	556.2	544.7	554.6	559.5	566.1
65°	485.5	474.0	482.2	485.5	493.7
67.5°	418.0	409.8	411.4	416.4	419.6
70°	357.1	347.2	347.2	347.2	348.9
72.5°	301.2	286.3	284.7	286.3	286.3
75°	240.3	230.4	227.1	227.1	225.5
77.5°	192.5	179.4	177.7	174.4	171.1
80°	139.9	128.4	125.1	123.4	121.8
82.5°	97.1	87.2	83.9	80.6	75.7
85°	57.6	51.0	44.4	39.5	34.6
87.5°	21.4	19.7	16.5	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)