

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: P293855

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3141.0 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

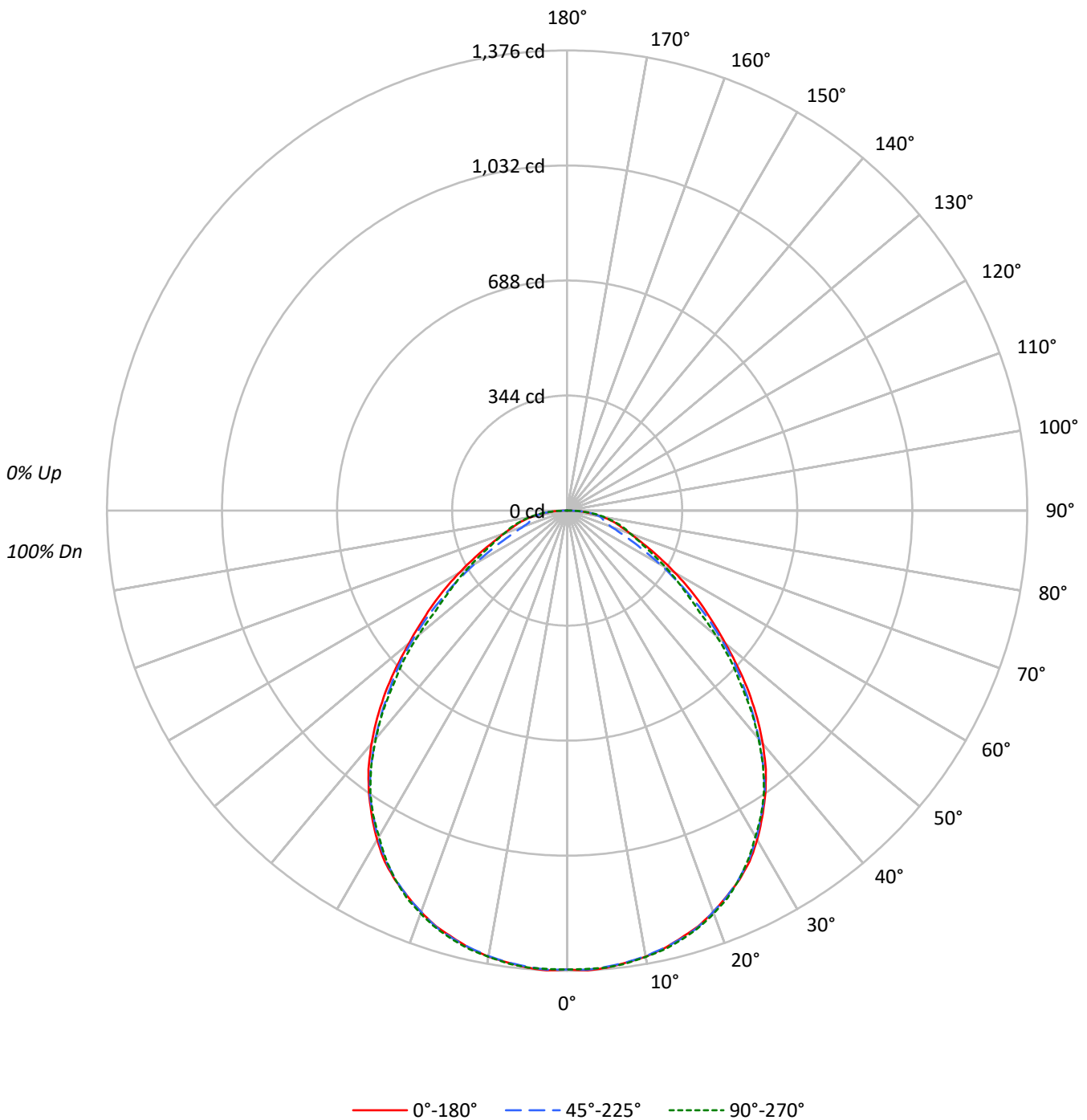
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1847	1847	1847
5°	1853	1849	1852
10°	1850	1848	1851
15°	1841	1845	1850
20°	1829	1829	1836
25°	1809	1805	1806
30°	1766	1757	1749
35°	1697	1692	1685
40°	1598	1569	1562
45°	1462	1422	1396
50°	1292	1267	1217
55°	1149	1071	1030
60°	1001	857	919
65°	864	664	813
70°	788	544	786
75°	795	586	835
80°	828	763	881
85°	863	908	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	4.1
10°-20°	373.4	11.9
20°-30°	558.9	17.8
30°-40°	638.7	20.3
40°-50°	577.4	18.4
50°-60°	415.4	13.2
60°-70°	240.8	7.7
70°-80°	142.9	4.5
80°-90°	63.3	2.0
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°	1062.5	33.8
0°-40°	1701.2	54.2
0°-60°	2694.0	85.8
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1372	1370	1369	1367	1372	130
15°	1322	1324	1324	1323	1328	373
25°	1218	1217	1216	1213	1217	560
35°	1033	1028	1030	1017	1026	644
45°	768	755	747	740	734	590
55°	490	481	457	445	439	438
65°	272	241	209	233	255	274
75°	153	128	113	139	161	162
85°	56	60	59	68	63	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1372.5	1372.5	1372.5	1372.5	1372.5
2.5°	1376.4	1371.5	1374.0	1372.5	1372.0
5°	1372.0	1370.1	1369.1	1367.1	1371.5
7.5°	1363.2	1361.7	1362.2	1362.7	1365.6
10°	1354.4	1351.9	1352.4	1353.4	1354.9
12.5°	1340.7	1339.2	1339.7	1340.7	1344.1
15°	1322.0	1324.5	1324.5	1323.0	1327.9
17.5°	1303.4	1302.9	1305.4	1301.0	1307.8
20°	1277.4	1277.9	1277.4	1277.9	1282.3
22.5°	1248.0	1250.5	1249.0	1249.0	1253.9
25°	1218.2	1216.7	1215.7	1213.3	1216.7
27.5°	1182.4	1179.4	1177.0	1172.1	1174.5
30°	1136.8	1137.3	1130.9	1126.5	1125.5
32.5°	1085.9	1085.9	1080.0	1076.5	1079.5
35°	1032.9	1028.0	1030.0	1017.3	1026.1
37.5°	975.6	967.8	963.4	958.9	961.9
40°	909.9	899.7	893.3	884.5	889.4
42.5°	840.9	828.1	820.3	813.9	815.9
45°	768.3	755.1	747.3	740.4	733.5
47.5°	691.9	683.6	679.6	670.8	663.0
50°	617.4	614.5	605.2	597.8	581.6
52.5°	549.3	546.8	532.1	519.9	499.3
55°	490.0	480.7	456.7	444.9	439.0
57.5°	429.7	414.5	385.6	384.2	388.1
60°	371.9	353.3	318.5	326.3	341.5
62.5°	319.5	291.6	258.2	276.9	295.0
65°	271.5	241.1	208.7	233.2	255.3
67.5°	231.8	201.4	168.1	200.9	226.4
70°	200.4	169.5	138.2	175.9	199.9
72.5°	174.4	146.5	120.5	156.3	181.3
75°	152.9	127.9	112.7	139.2	160.7
77.5°	131.3	111.2	107.8	124.0	137.2
80°	106.8	97.5	98.5	108.8	113.7
82.5°	79.9	80.4	82.8	91.1	89.2
85°	55.9	60.3	58.8	67.6	63.2
87.5°	30.9	33.8	31.9	38.7	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)