

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: P293732

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293732
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-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3916.0 lumens
Efficiency: N/A
Efficacy: 151.5 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

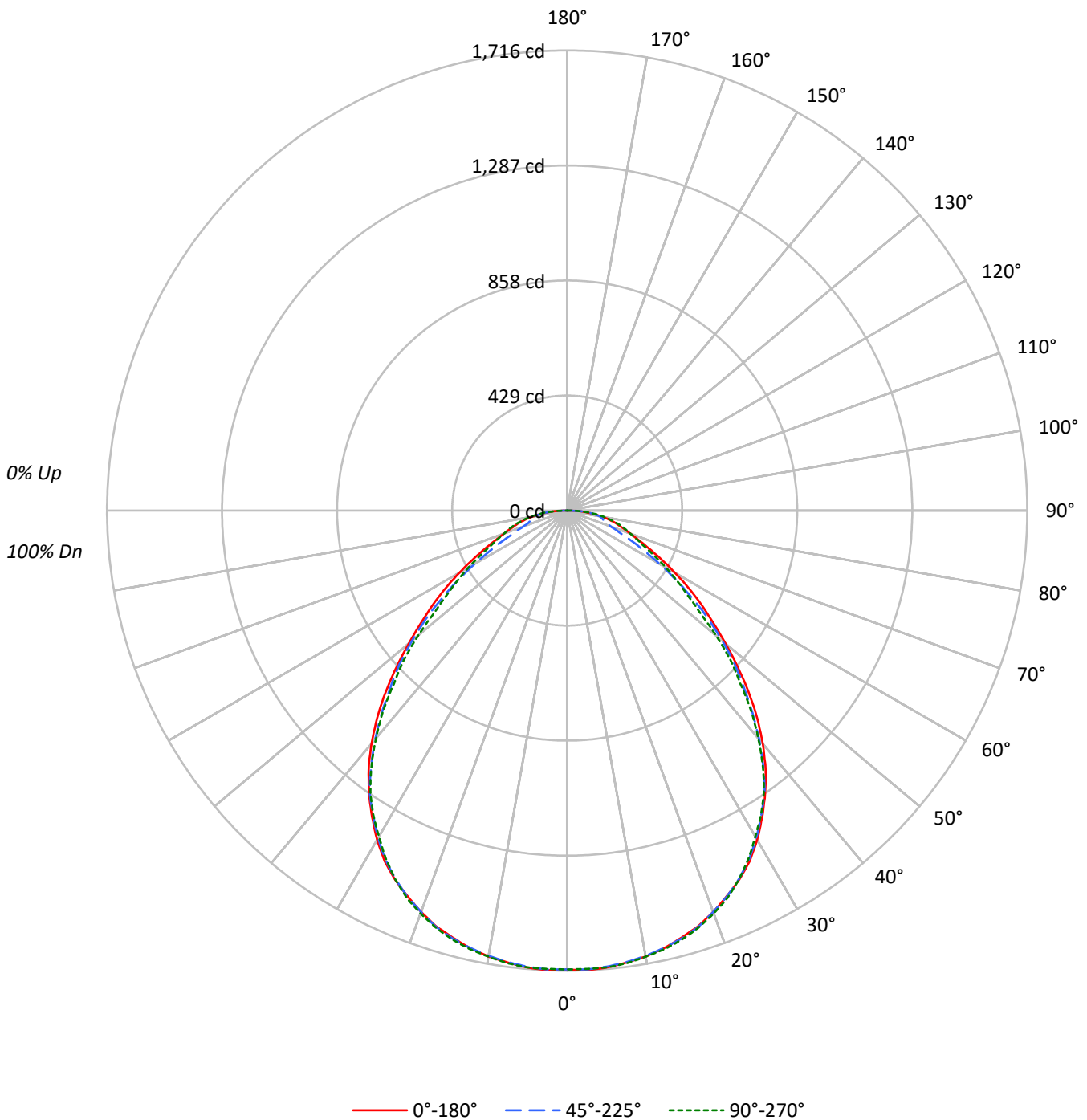
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2302	2302	2302
5°	2310	2305	2309
10°	2307	2304	2308
15°	2296	2300	2306
20°	2280	2280	2289
25°	2255	2250	2252
30°	2202	2191	2180
35°	2115	2109	2101
40°	1993	1956	1948
45°	1823	1773	1740
50°	1611	1579	1518
55°	1433	1336	1284
60°	1248	1069	1146
65°	1077	828	1013
70°	983	678	981
75°	991	730	1042
80°	1032	951	1098
85°	1074	1132	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	4.1
10°-20°	465.5	11.9
20°-30°	696.8	17.8
30°-40°	796.2	20.3
40°-50°	719.9	18.4
50°-60°	517.9	13.2
60°-70°	300.3	7.7
70°-80°	178.1	4.5
80°-90°	78.9	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°	1324.7	33.8
0°-40°	2120.9	54.2
0°-60°	3358.7	85.8
0°-90°	3916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1710	1708	1707	1704	1710	162
15°	1648	1651	1651	1650	1656	465
25°	1519	1517	1516	1513	1517	698
35°	1288	1282	1284	1268	1279	803
45°	958	941	932	923	914	736
55°	611	599	569	555	547	547
65°	338	301	260	291	318	342
75°	191	159	140	174	200	201
85°	70	75	73	84	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.2	1711.2	1711.2	1711.2	1711.2
2.5°	1716.0	1709.9	1713.0	1711.2	1710.5
5°	1710.5	1708.1	1706.9	1704.4	1709.9
7.5°	1699.5	1697.7	1698.3	1698.9	1702.6
10°	1688.6	1685.5	1686.1	1687.3	1689.2
12.5°	1671.4	1669.6	1670.2	1671.4	1675.7
15°	1648.2	1651.3	1651.3	1649.5	1655.6
17.5°	1625.0	1624.4	1627.5	1622.0	1630.5
20°	1592.6	1593.3	1592.6	1593.3	1598.7
22.5°	1556.0	1559.0	1557.2	1557.2	1563.3
25°	1518.7	1516.9	1515.7	1512.6	1516.9
27.5°	1474.1	1470.5	1467.4	1461.3	1464.3
30°	1417.3	1417.9	1410.0	1404.5	1403.3
32.5°	1353.8	1353.8	1346.4	1342.2	1345.8
35°	1287.8	1281.7	1284.1	1268.2	1279.2
37.5°	1216.3	1206.5	1201.0	1195.5	1199.2
40°	1134.5	1121.6	1113.7	1102.7	1108.8
42.5°	1048.3	1032.4	1022.7	1014.7	1017.2
45°	957.9	941.4	931.6	923.1	914.5
47.5°	862.6	852.2	847.3	836.3	826.6
50°	769.7	766.1	754.5	745.3	725.1
52.5°	684.8	681.8	663.4	648.2	622.5
55°	610.9	599.3	569.4	554.7	547.4
57.5°	535.8	516.8	480.8	479.0	483.8
60°	463.7	440.5	397.1	406.9	425.8
62.5°	398.3	363.5	321.9	345.2	367.8
65°	338.4	300.6	260.2	290.8	318.3
67.5°	289.0	251.1	209.5	250.5	282.2
70°	249.9	211.4	172.3	219.3	249.3
72.5°	217.5	182.7	150.3	194.9	226.0
75°	190.6	159.4	140.5	173.5	200.4
77.5°	163.7	138.7	134.4	154.6	171.1
80°	133.2	121.6	122.8	135.6	141.7
82.5°	99.6	100.2	103.2	113.6	111.2
85°	69.6	75.1	73.3	84.3	78.8
87.5°	38.5	42.2	39.7	48.3	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)