

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: P293484

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4069.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

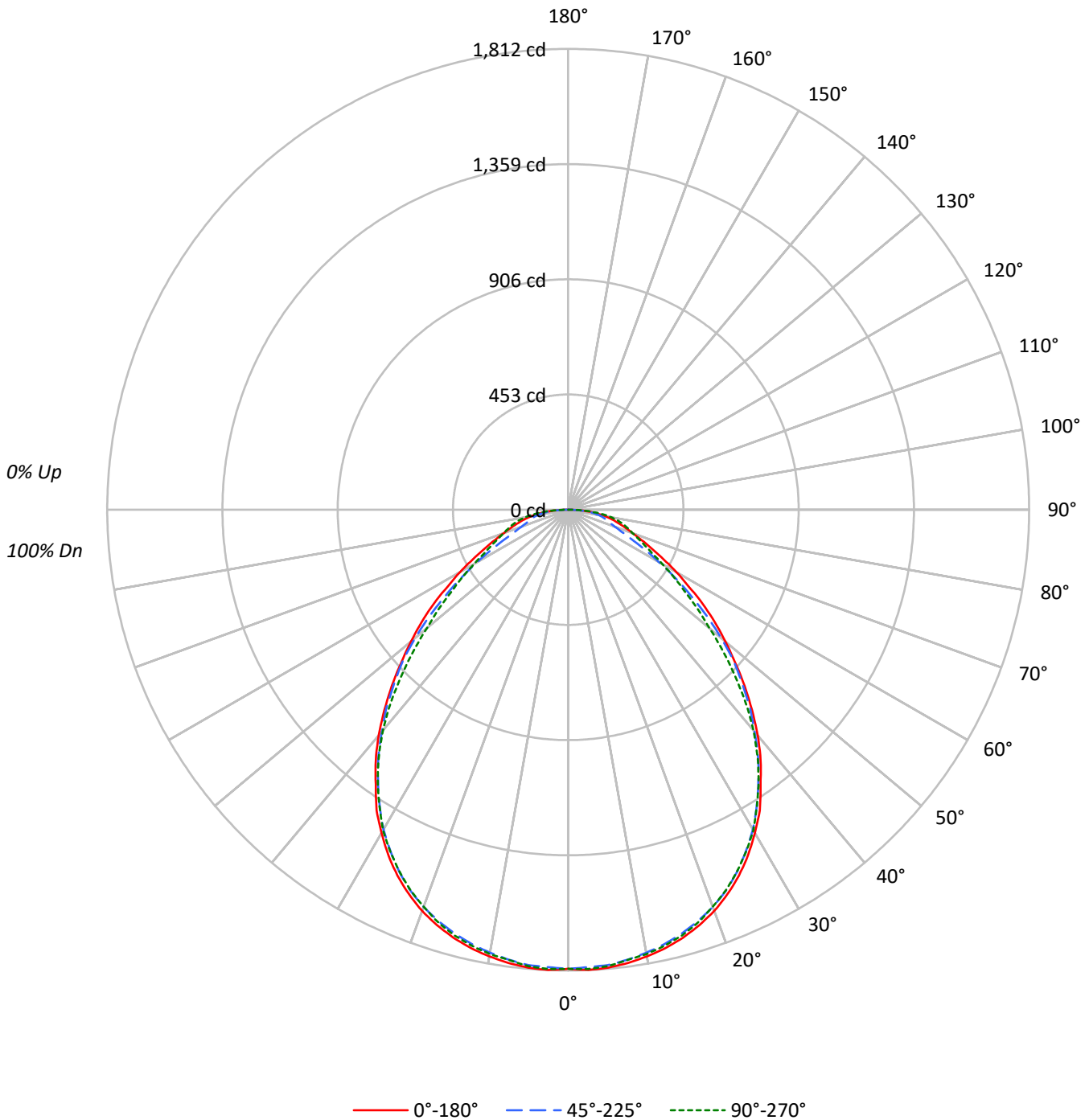
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	2429	2429	2429
5°	2441	2427	2433
10°	2437	2417	2424
15°	2427	2403	2413
20°	2404	2380	2379
25°	2357	2332	2330
30°	2279	2256	2261
35°	2165	2140	2144
40°	2036	2001	1988
45°	1866	1841	1768
50°	1687	1641	1517
55°	1514	1379	1308
60°	1326	1110	1150
65°	1157	873	1059
70°	1058	762	1058
75°	1059	810	1167
80°	1150	955	1330
85°	1261	1078	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	4.2
10°-20°	487.9	12.0
20°-30°	723.5	17.8
30°-40°	816.1	20.1
40°-50°	739.2	18.2
50°-60°	533.3	13.1
60°-70°	318.4	7.8
70°-80°	196.8	4.8
80°-90°	82.9	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°	1382.3	34.0
0°-40°	2198.4	54.0
0°-60°	3470.9	85.3
0°-90°	4069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1807	1805	1797	1795	1802	172
15°	1742	1732	1725	1726	1732	491
25°	1588	1579	1571	1565	1570	729
35°	1318	1316	1303	1304	1305	825
45°	981	974	967	944	929	756
55°	646	626	588	559	558	576
65°	363	320	274	311	332	365
75°	204	177	156	194	224	217
85°	82	72	70	91	92	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1811.7	1806.6	1800.3	1804.1	1807.3
5°	1807.3	1804.7	1797.2	1795.3	1801.6
7.5°	1797.8	1791.5	1784.6	1787.8	1785.3
10°	1783.4	1777.7	1768.9	1769.5	1773.9
12.5°	1765.8	1758.9	1749.4	1751.9	1755.7
15°	1742.5	1731.8	1724.9	1725.5	1732.4
17.5°	1713.0	1704.8	1696.0	1697.9	1701.0
20°	1679.0	1674.6	1662.0	1658.3	1661.4
22.5°	1636.3	1628.1	1621.2	1619.3	1619.9
25°	1587.9	1579.1	1570.9	1565.2	1569.6
27.5°	1531.3	1523.8	1513.1	1511.2	1515.0
30°	1467.2	1461.5	1452.1	1449.6	1455.2
32.5°	1401.8	1392.4	1379.2	1379.2	1380.4
35°	1318.2	1316.3	1303.1	1303.7	1305.0
37.5°	1242.8	1234.0	1226.4	1218.9	1222.6
40°	1159.2	1149.1	1139.0	1134.0	1132.1
42.5°	1069.3	1061.7	1057.3	1039.1	1034.7
45°	980.6	974.3	967.4	943.5	929.1
47.5°	890.1	888.9	883.2	841.1	826.6
50°	805.9	804.0	783.9	739.2	724.8
52.5°	726.0	713.5	687.1	643.1	640.6
55°	645.6	625.5	587.8	558.8	557.6
57.5°	560.7	536.8	498.5	482.8	490.9
60°	492.8	456.4	412.4	414.3	427.5
62.5°	422.4	381.6	338.2	357.1	372.8
65°	363.3	320.0	274.1	311.2	332.5
67.5°	311.8	271.6	227.6	277.2	298.0
70°	269.0	236.4	193.6	245.8	269.0
72.5°	235.1	204.9	171.6	220.6	247.7
75°	203.7	176.6	155.9	194.2	224.4
77.5°	176.6	150.2	140.8	171.6	201.2
80°	148.4	124.5	123.2	149.6	171.6
82.5°	115.7	99.3	99.3	125.1	138.3
85°	81.7	71.7	69.8	91.1	92.4
87.5°	42.1	40.2	36.5	47.8	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)