

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: P293482

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293482
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 154.9 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

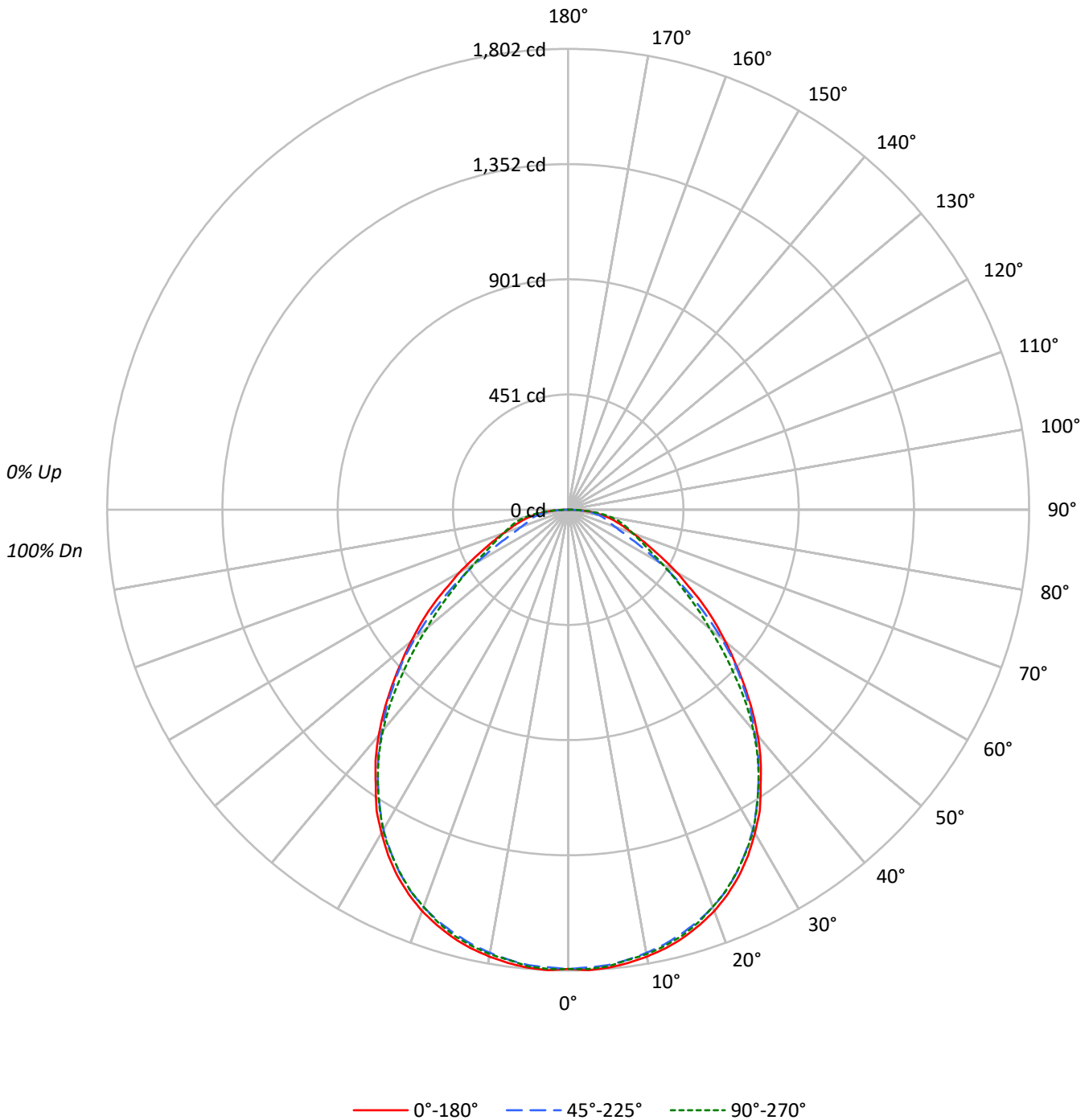
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2417	2417	2417
5°	2428	2415	2421
10°	2424	2404	2411
15°	2415	2390	2401
20°	2392	2368	2367
25°	2345	2320	2318
30°	2268	2244	2249
35°	2154	2129	2133
40°	2025	1990	1978
45°	1856	1831	1759
50°	1678	1632	1509
55°	1507	1372	1301
60°	1319	1104	1144
65°	1151	868	1053
70°	1053	758	1053
75°	1053	806	1161
80°	1144	950	1323
85°	1255	1071	1419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	4.2
10°-20°	485.4	12.0
20°-30°	719.7	17.8
30°-40°	811.9	20.1
40°-50°	735.4	18.2
50°-60°	530.5	13.1
60°-70°	316.8	7.8
70°-80°	195.8	4.8
80°-90°	82.5	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°	1375.2	34.0
0°-40°	2187.1	54.0
0°-60°	3453.0	85.3
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1798	1795	1788	1786	1792	171
15°	1734	1723	1716	1717	1724	489
25°	1580	1571	1563	1557	1562	726
35°	1311	1310	1296	1297	1298	821
45°	976	969	962	939	924	752
55°	642	622	585	556	555	573
65°	362	318	273	310	331	364
75°	203	176	155	193	223	216
85°	81	71	69	91	92	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.1	1796.1	1796.1	1796.1	1796.1
2.5°	1802.3	1797.3	1791.0	1794.8	1797.9
5°	1797.9	1795.4	1787.9	1786.0	1792.3
7.5°	1788.5	1782.3	1775.4	1778.5	1776.0
10°	1774.2	1768.5	1759.8	1760.4	1764.8
12.5°	1756.7	1749.8	1740.4	1742.9	1746.6
15°	1733.5	1722.9	1716.0	1716.6	1723.5
17.5°	1704.1	1696.0	1687.2	1689.1	1692.2
20°	1670.4	1666.0	1653.5	1649.7	1652.8
22.5°	1627.8	1619.7	1612.8	1610.9	1611.6
25°	1579.7	1570.9	1562.8	1557.2	1561.5
27.5°	1523.4	1515.9	1505.3	1503.4	1507.1
30°	1459.6	1454.0	1444.6	1442.1	1447.7
32.5°	1394.6	1385.2	1372.1	1372.1	1373.3
35°	1311.4	1309.5	1296.4	1297.0	1298.3
37.5°	1236.3	1227.6	1220.1	1212.6	1216.3
40°	1153.2	1143.2	1133.2	1128.2	1126.3
42.5°	1063.7	1056.2	1051.9	1033.7	1029.4
45°	975.6	969.3	962.4	938.7	924.3
47.5°	885.5	884.3	878.6	836.7	822.4
50°	801.7	799.8	779.8	735.4	721.0
52.5°	722.3	709.8	683.5	639.7	637.2
55°	642.3	622.2	584.7	556.0	554.7
57.5°	557.8	534.1	495.9	480.3	488.4
60°	490.3	454.0	410.2	412.1	425.2
62.5°	420.2	379.6	336.4	355.2	370.8
65°	361.5	318.3	272.7	309.6	330.8
67.5°	310.2	270.2	226.4	275.8	296.4
70°	267.7	235.1	192.6	244.5	267.7
72.5°	233.9	203.9	170.7	219.5	246.4
75°	202.6	175.7	155.1	193.2	223.3
77.5°	175.7	149.5	140.1	170.7	200.1
80°	147.6	123.8	122.6	148.8	170.7
82.5°	115.1	98.8	98.8	124.4	137.6
85°	81.3	71.3	69.4	90.7	91.9
87.5°	41.9	40.0	36.3	47.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)