

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: P293608

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293608
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3654.0 lumens
Efficiency: N/A
Efficacy: 139.8 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

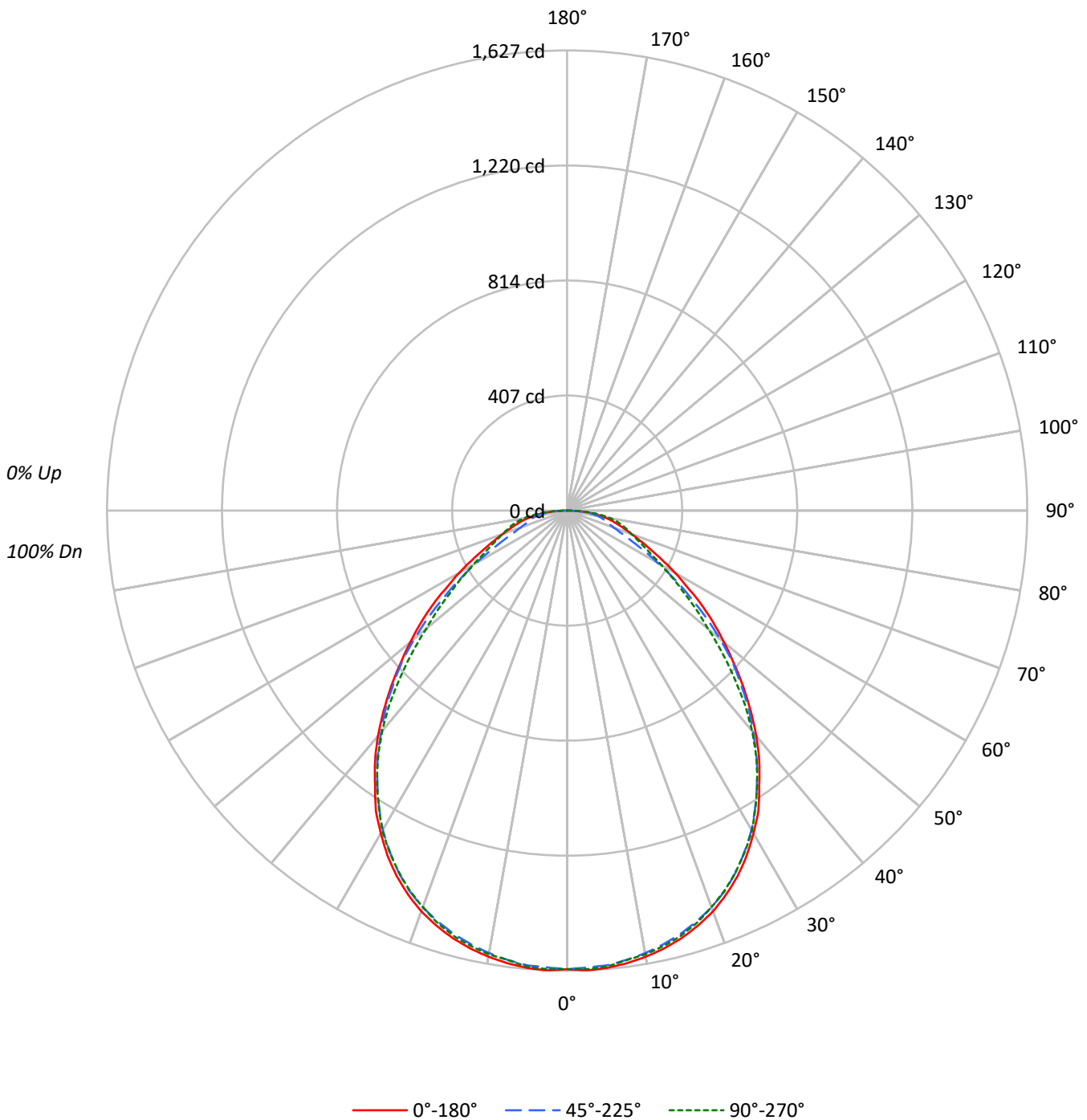
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2181	2181	2181
5°	2192	2180	2185
10°	2188	2170	2176
15°	2180	2158	2167
20°	2159	2137	2136
25°	2117	2094	2093
30°	2047	2026	2030
35°	1944	1922	1925
40°	1828	1797	1786
45°	1676	1653	1588
50°	1515	1473	1362
55°	1360	1238	1175
60°	1191	996	1033
65°	1039	784	951
70°	950	684	950
75°	951	728	1048
80°	1032	857	1194
85°	1133	968	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	4.2
10°-20°	438.1	12.0
20°-30°	649.7	17.8
30°-40°	732.9	20.1
40°-50°	663.8	18.2
50°-60°	478.9	13.1
60°-70°	285.9	7.8
70°-80°	176.7	4.8
80°-90°	74.5	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°	1241.3	34.0
0°-40°	1974.2	54.0
0°-60°	3116.9	85.3
0°-90°	3654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1623	1621	1614	1612	1618	154
15°	1565	1555	1549	1550	1556	441
25°	1426	1418	1411	1406	1410	655
35°	1184	1182	1170	1171	1172	741
45°	881	875	869	847	834	679
55°	580	562	528	502	501	518
65°	326	287	246	279	299	328
75°	183	159	140	174	202	195
85°	73	64	63	82	83	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.2	1621.2	1621.2	1621.2	1621.2
2.5°	1626.9	1622.4	1616.7	1620.1	1622.9
5°	1622.9	1620.7	1613.9	1612.2	1617.9
7.5°	1614.5	1608.8	1602.6	1605.4	1603.2
10°	1601.5	1596.4	1588.5	1589.1	1593.0
12.5°	1585.7	1579.5	1571.0	1573.3	1576.6
15°	1564.8	1555.2	1549.0	1549.5	1555.8
17.5°	1538.3	1530.9	1523.0	1524.7	1527.5
20°	1507.8	1503.8	1492.5	1489.1	1492.0
22.5°	1469.4	1462.0	1455.8	1454.1	1454.7
25°	1425.9	1418.0	1410.7	1405.6	1409.6
27.5°	1375.1	1368.3	1358.7	1357.1	1360.4
30°	1317.5	1312.5	1304.0	1301.7	1306.8
32.5°	1258.8	1250.4	1238.5	1238.5	1239.6
35°	1183.8	1182.1	1170.2	1170.8	1171.9
37.5°	1116.0	1108.1	1101.3	1094.6	1097.9
40°	1040.9	1031.9	1022.9	1018.4	1016.7
42.5°	960.2	953.4	949.5	933.1	929.2
45°	880.6	875.0	868.8	847.3	834.3
47.5°	799.3	798.2	793.1	755.3	742.3
50°	723.7	722.0	703.9	663.8	650.9
52.5°	652.0	640.7	617.0	577.5	575.2
55°	579.7	561.7	527.8	501.8	500.7
57.5°	503.5	482.1	447.6	433.5	440.9
60°	442.6	409.8	370.3	372.0	383.9
62.5°	379.3	342.7	303.7	320.6	334.7
65°	326.3	287.3	246.1	279.4	298.6
67.5°	280.0	243.9	204.3	248.9	267.6
70°	241.6	212.3	173.9	220.7	241.6
72.5°	211.1	184.0	154.1	198.1	222.4
75°	182.9	158.6	140.0	174.4	201.5
77.5°	158.6	134.9	126.4	154.1	180.6
80°	133.2	111.8	110.6	134.4	154.1
82.5°	103.9	89.2	89.2	112.3	124.2
85°	73.4	64.4	62.7	81.9	83.0
87.5°	37.8	36.1	32.7	42.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)