

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: P293476

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293476
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3572.0 lumens
Efficiency: N/A
Efficacy: 140.7 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

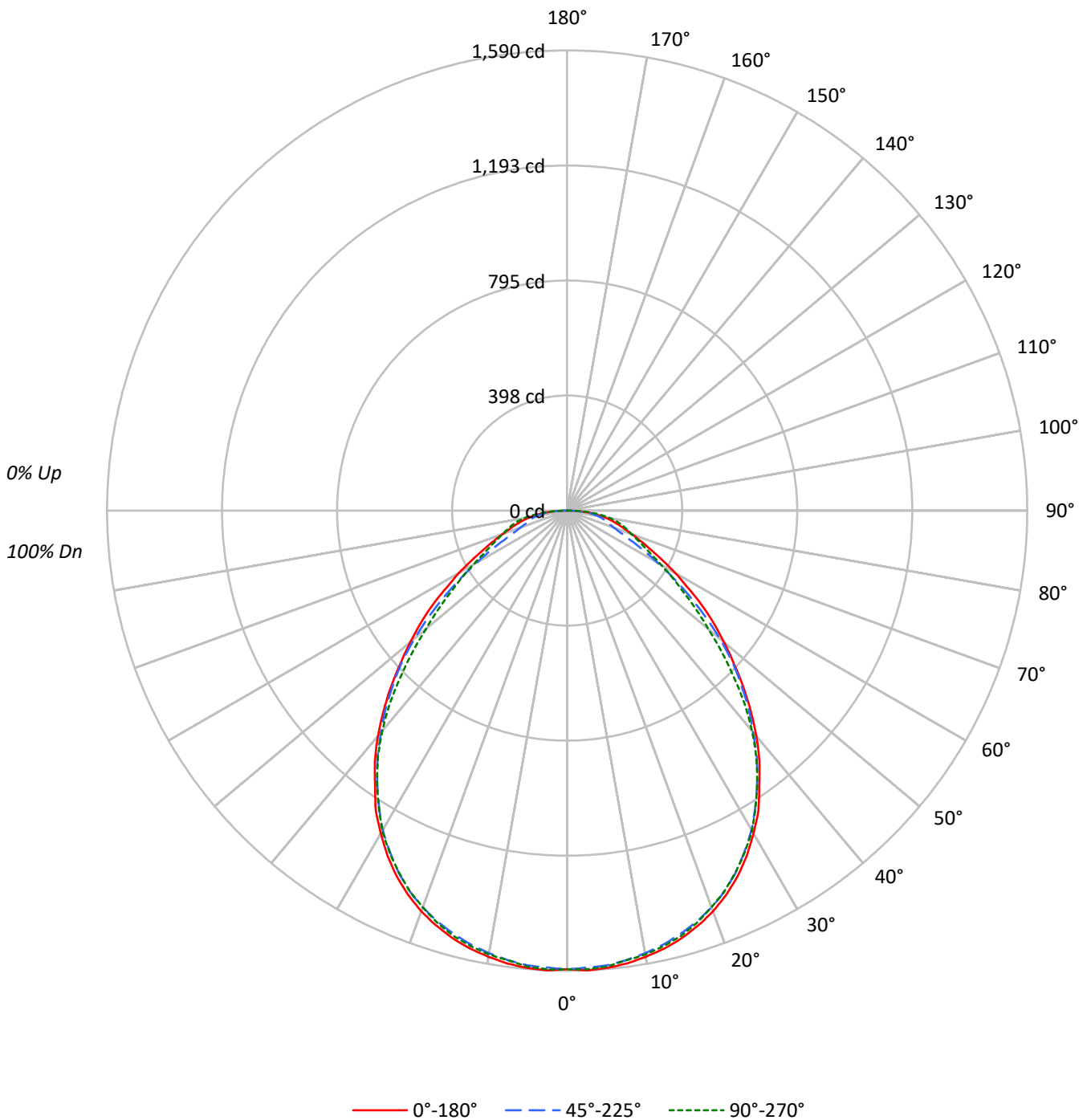
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2132	2132	2132
5°	2143	2131	2136
10°	2139	2122	2128
15°	2131	2109	2118
20°	2110	2089	2088
25°	2069	2047	2046
30°	2001	1980	1985
35°	1901	1879	1882
40°	1787	1756	1746
45°	1638	1616	1552
50°	1481	1440	1332
55°	1329	1210	1148
60°	1164	974	1010
65°	1016	766	929
70°	929	669	929
75°	930	712	1024
80°	1009	838	1167
85°	1107	946	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	4.2
10°-20°	428.3	12.0
20°-30°	635.1	17.8
30°-40°	716.4	20.1
40°-50°	648.9	18.2
50°-60°	468.1	13.1
60°-70°	279.5	7.8
70°-80°	172.8	4.8
80°-90°	72.8	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°	1213.5	34.0
0°-40°	1929.9	54.0
0°-60°	3046.9	85.3
0°-90°	3572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1586	1584	1578	1576	1582	151
15°	1530	1520	1514	1515	1521	431
25°	1394	1386	1379	1374	1378	640
35°	1157	1156	1144	1144	1146	724
45°	861	855	849	828	816	663
55°	567	549	516	491	490	506
65°	319	281	241	273	292	321
75°	179	155	137	170	197	191
85°	72	63	61	80	81	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1590.4	1586.0	1580.4	1583.8	1586.5
5°	1586.5	1584.3	1577.7	1576.0	1581.5
7.5°	1578.2	1572.7	1566.6	1569.4	1567.2
10°	1565.5	1560.6	1552.8	1553.4	1557.3
12.5°	1550.1	1544.0	1535.7	1537.9	1541.3
15°	1529.7	1520.3	1514.2	1514.8	1520.8
17.5°	1503.7	1496.6	1488.8	1490.5	1493.3
20°	1473.9	1470.1	1459.0	1455.7	1458.5
22.5°	1436.4	1429.2	1423.2	1421.5	1422.1
25°	1393.9	1386.2	1379.0	1374.1	1377.9
27.5°	1344.3	1337.6	1328.3	1326.6	1329.9
30°	1288.0	1283.0	1274.7	1272.5	1277.5
32.5°	1230.6	1222.3	1210.7	1210.7	1211.8
35°	1157.2	1155.5	1143.9	1144.5	1145.6
37.5°	1091.0	1083.2	1076.6	1070.0	1073.3
40°	1017.6	1008.7	999.9	995.5	993.8
42.5°	938.7	932.0	928.2	912.2	908.3
45°	860.9	855.3	849.3	828.3	815.6
47.5°	781.4	780.3	775.3	738.3	725.7
50°	707.4	705.8	688.1	649.0	636.3
52.5°	637.4	626.3	603.1	564.5	562.3
55°	566.7	549.1	516.0	490.6	489.5
57.5°	492.2	471.3	437.6	423.8	431.0
60°	432.6	400.6	362.0	363.7	375.2
62.5°	370.8	335.0	296.9	313.4	327.2
65°	319.0	280.9	240.6	273.2	291.9
67.5°	273.7	238.4	199.8	243.4	261.6
70°	236.2	207.5	170.0	215.8	236.2
72.5°	206.4	179.9	150.6	193.7	217.4
75°	178.8	155.1	136.9	170.5	197.0
77.5°	155.1	131.9	123.6	150.6	176.6
80°	130.2	109.3	108.2	131.3	150.6
82.5°	101.5	87.2	87.2	109.8	121.4
85°	71.7	62.9	61.3	80.0	81.1
87.5°	37.0	35.3	32.0	41.9	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)