

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: P293423

Luminaire Tested: **24GR-LD5-38-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293423
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3679.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

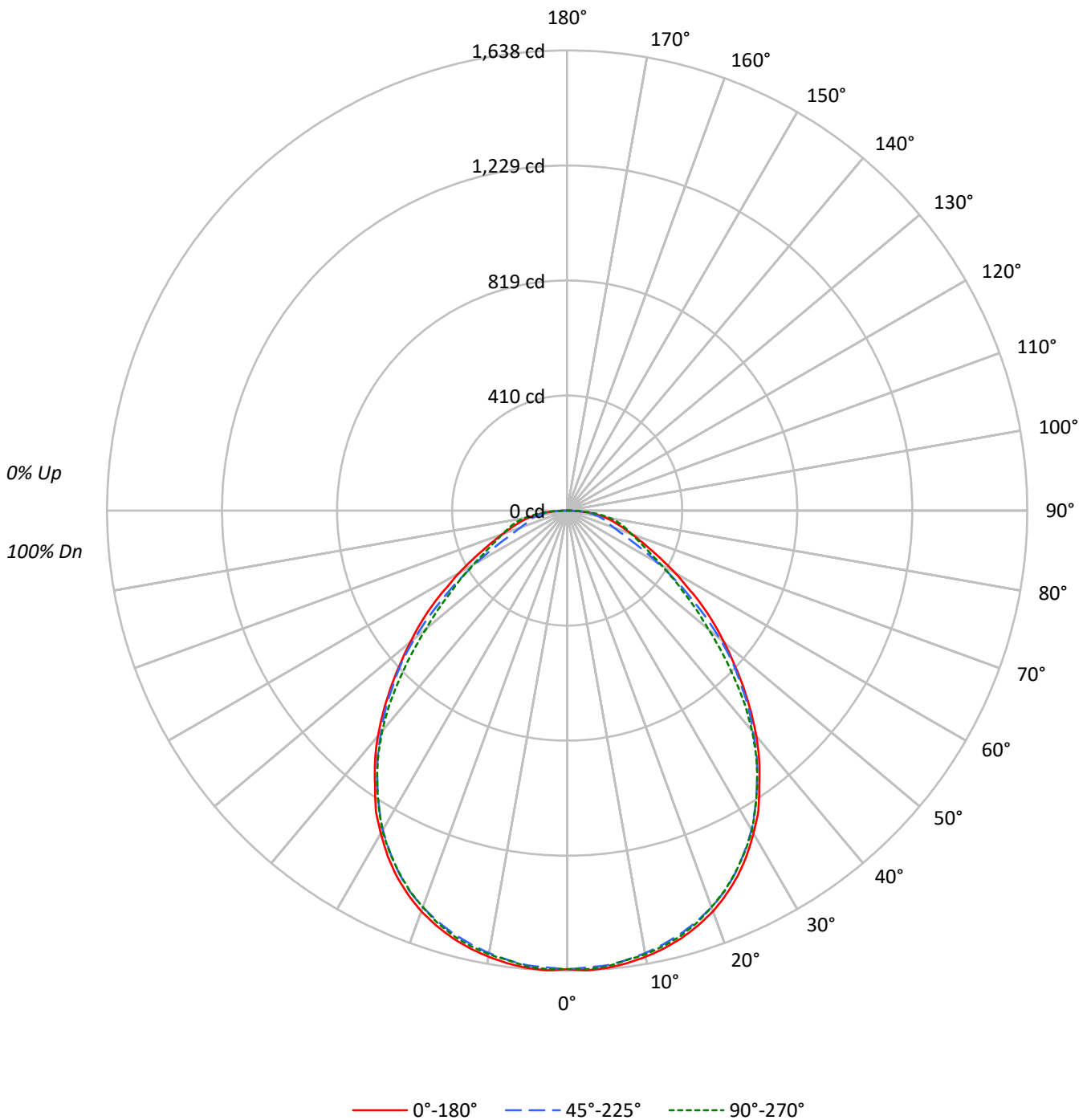
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2196	2196	2196
5°	2207	2195	2200
10°	2203	2185	2191
15°	2195	2172	2182
20°	2174	2152	2151
25°	2131	2109	2107
30°	2061	2040	2044
35°	1958	1935	1938
40°	1841	1809	1798
45°	1687	1664	1598
50°	1525	1483	1372
55°	1369	1247	1183
60°	1199	1003	1040
65°	1046	789	957
70°	957	689	957
75°	957	733	1055
80°	1039	863	1203
85°	1141	974	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	4.2
10°-20°	441.1	12.0
20°-30°	654.1	17.8
30°-40°	737.9	20.1
40°-50°	668.3	18.2
50°-60°	482.2	13.1
60°-70°	287.9	7.8
70°-80°	177.9	4.8
80°-90°	75.0	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°	1249.8	34.0
0°-40°	1987.7	54.0
0°-60°	3138.2	85.3
0°-90°	3679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1634	1632	1625	1623	1629	155
15°	1576	1566	1560	1560	1566	444
25°	1436	1428	1420	1415	1419	660
35°	1192	1190	1178	1179	1180	746
45°	887	881	875	853	840	683
55°	584	566	531	505	504	521
65°	328	289	248	281	301	330
75°	184	160	141	176	203	197
85°	74	65	63	82	84	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1638.0	1633.5	1627.8	1631.2	1634.0
5°	1634.0	1631.8	1624.9	1623.2	1628.9
7.5°	1625.5	1619.8	1613.6	1616.4	1614.1
10°	1612.4	1607.3	1599.4	1599.9	1603.9
12.5°	1596.5	1590.3	1581.7	1584.0	1587.4
15°	1575.5	1565.8	1559.6	1560.1	1566.4
17.5°	1548.8	1541.4	1533.4	1535.1	1538.0
20°	1518.1	1514.1	1502.7	1499.3	1502.2
22.5°	1479.4	1472.1	1465.8	1464.1	1464.7
25°	1435.7	1427.7	1420.3	1415.2	1419.2
27.5°	1384.5	1377.7	1368.0	1366.3	1369.7
30°	1326.6	1321.4	1312.9	1310.6	1315.8
32.5°	1267.4	1258.9	1247.0	1247.0	1248.1
35°	1191.9	1190.1	1178.2	1178.8	1179.9
37.5°	1123.6	1115.7	1108.9	1102.0	1105.5
40°	1048.1	1039.0	1029.9	1025.3	1023.6
42.5°	966.8	960.0	956.0	939.5	935.5
45°	886.6	881.0	874.7	853.1	840.0
47.5°	804.8	803.7	798.5	760.5	747.4
50°	728.6	726.9	708.7	668.4	655.3
52.5°	656.5	645.1	621.2	581.4	579.2
55°	583.7	565.5	531.4	505.3	504.1
57.5°	507.0	485.4	450.7	436.5	443.9
60°	445.6	412.6	372.8	374.5	386.5
62.5°	381.9	345.0	305.8	322.8	337.0
65°	328.5	289.3	247.8	281.3	300.7
67.5°	281.9	245.5	205.7	250.6	269.4
70°	243.3	213.7	175.1	222.2	243.3
72.5°	212.6	185.3	155.2	199.5	223.9
75°	184.1	159.7	141.0	175.6	202.9
77.5°	159.7	135.8	127.3	155.2	181.9
80°	134.1	112.5	111.4	135.3	155.2
82.5°	104.6	89.8	89.8	113.1	125.0
85°	73.9	64.8	63.1	82.4	83.5
87.5°	38.1	36.4	33.0	43.2	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)