

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: P293609

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293609
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3670.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

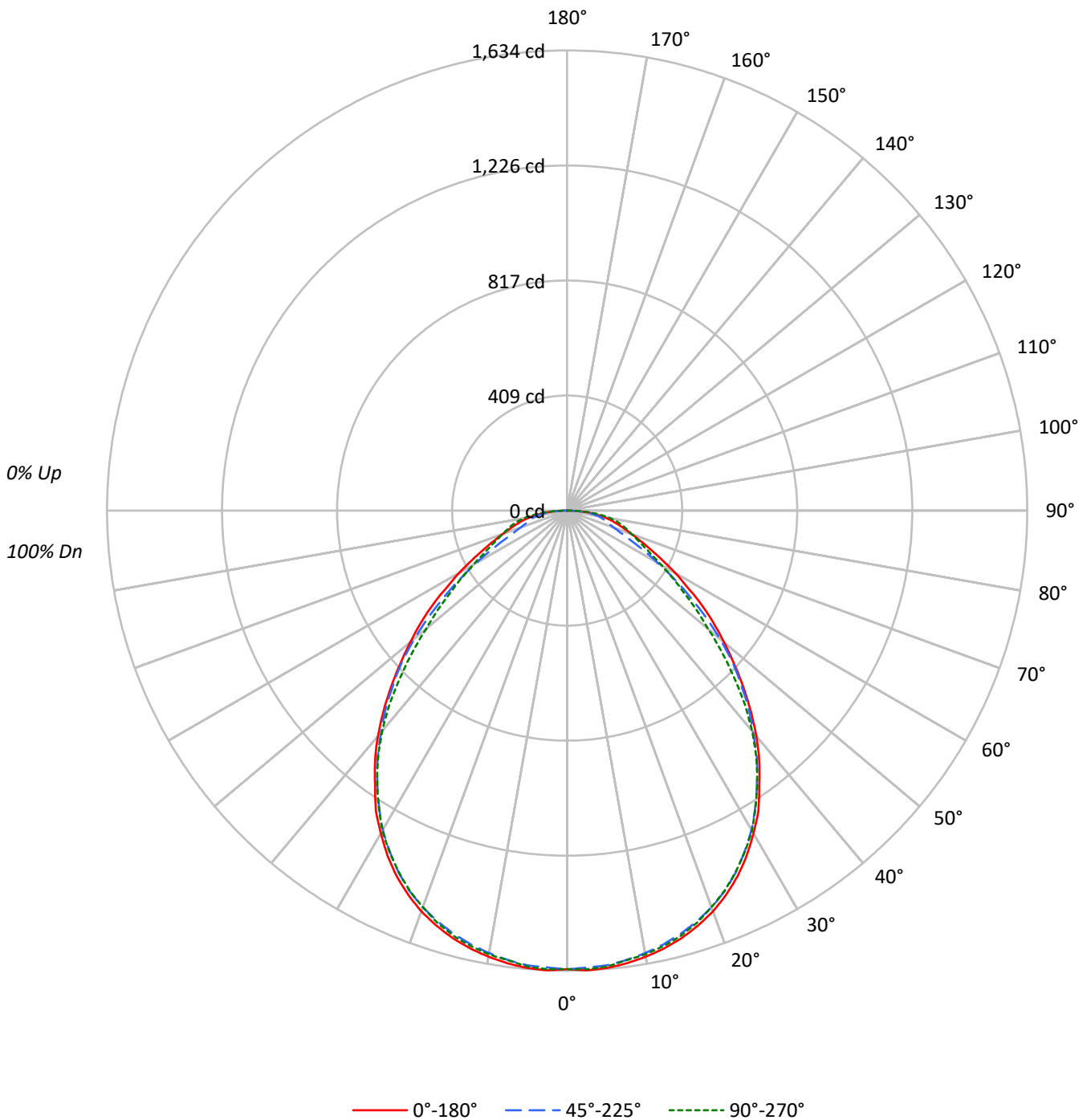
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2191	2191	2191
5°	2202	2189	2195
10°	2198	2180	2186
15°	2189	2167	2177
20°	2168	2146	2146
25°	2126	2104	2102
30°	2056	2035	2039
35°	1953	1930	1933
40°	1836	1804	1793
45°	1683	1660	1595
50°	1522	1480	1368
55°	1366	1244	1180
60°	1196	1001	1037
65°	1043	787	955
70°	955	687	955
75°	955	731	1052
80°	1037	861	1199
85°	1138	971	1286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	4.2
10°-20°	440.1	12.0
20°-30°	652.5	17.8
30°-40°	736.1	20.1
40°-50°	666.7	18.2
50°-60°	481.0	13.1
60°-70°	287.2	7.8
70°-80°	177.5	4.8
80°-90°	74.8	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°	1246.8	34.0
0°-40°	1982.9	54.0
0°-60°	3130.5	85.3
0°-90°	3670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1630	1628	1621	1619	1625	155
15°	1572	1562	1556	1556	1563	443
25°	1432	1424	1417	1412	1416	658
35°	1189	1187	1175	1176	1177	744
45°	884	879	873	851	838	682
55°	582	564	530	504	503	520
65°	328	289	247	281	300	330
75°	184	159	141	175	202	196
85°	74	65	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°	1628.3	1628.3	1628.3	1628.3	1628.3
2.5°	1634.0	1629.5	1623.8	1627.2	1630.0
5°	1630.0	1627.8	1621.0	1619.3	1624.9
7.5°	1621.5	1615.9	1609.6	1612.5	1610.2
10°	1608.5	1603.4	1595.5	1596.0	1600.0
12.5°	1592.6	1586.4	1577.9	1580.1	1583.5
15°	1571.6	1562.0	1555.8	1556.3	1562.6
17.5°	1545.0	1537.6	1529.7	1531.4	1534.2
20°	1514.4	1510.4	1499.1	1495.7	1498.5
22.5°	1475.8	1468.5	1462.2	1460.5	1461.1
25°	1432.2	1424.2	1416.9	1411.8	1415.7
27.5°	1381.1	1374.3	1364.7	1363.0	1366.4
30°	1323.3	1318.2	1309.7	1307.4	1312.5
32.5°	1264.3	1255.8	1243.9	1243.9	1245.1
35°	1188.9	1187.2	1175.3	1175.9	1177.0
37.5°	1120.9	1113.0	1106.2	1099.4	1102.8
40°	1045.5	1036.4	1027.3	1022.8	1021.1
42.5°	964.4	957.6	953.6	937.2	933.2
45°	884.5	878.8	872.6	851.0	838.0
47.5°	802.8	801.7	796.6	758.6	745.6
50°	726.9	725.2	707.0	666.8	653.7
52.5°	654.8	643.5	619.7	580.0	577.7
55°	582.3	564.1	530.1	504.0	502.9
57.5°	505.7	484.2	449.6	435.4	442.8
60°	444.5	411.6	371.9	373.6	385.5
62.5°	381.0	344.2	305.0	322.0	336.2
65°	327.7	288.6	247.2	280.6	299.9
67.5°	281.2	244.9	205.2	250.0	268.7
70°	242.7	213.2	174.6	221.7	242.7
72.5°	212.0	184.8	154.8	199.0	223.4
75°	183.7	159.3	140.6	175.2	202.4
77.5°	159.3	135.5	127.0	154.8	181.4
80°	133.8	112.3	111.1	134.9	154.8
82.5°	104.3	89.6	89.6	112.8	124.7
85°	73.7	64.6	62.9	82.2	83.3
87.5°	38.0	36.3	32.9	43.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)