

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: P293610

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293610
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 138.9 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

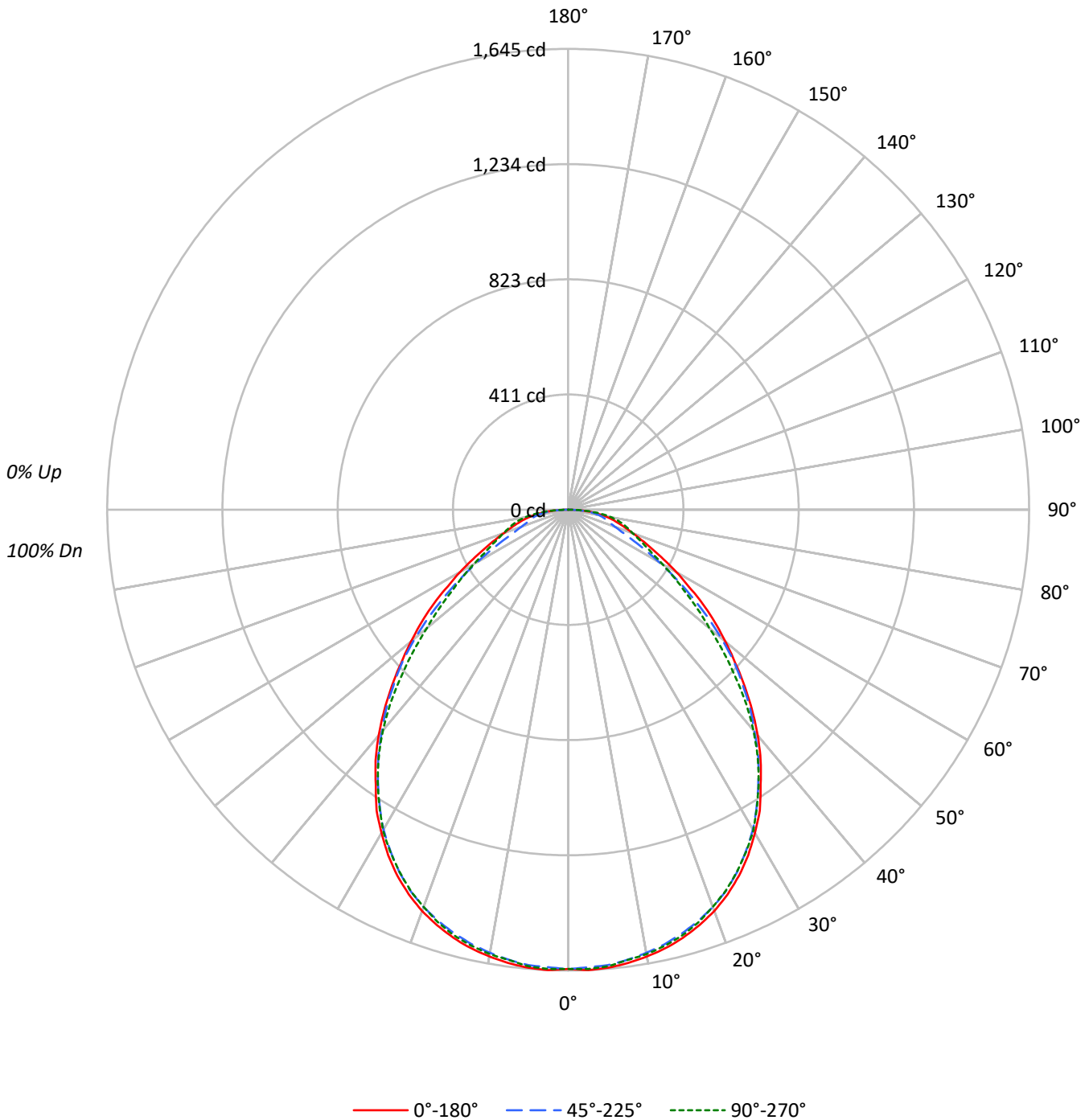
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2206	2206	2206
5°	2217	2204	2210
10°	2212	2195	2201
15°	2204	2182	2191
20°	2183	2161	2160
25°	2141	2118	2116
30°	2070	2049	2053
35°	1966	1944	1946
40°	1849	1817	1806
45°	1694	1672	1605
50°	1532	1490	1378
55°	1375	1252	1188
60°	1204	1008	1045
65°	1050	792	961
70°	961	692	961
75°	961	736	1059
80°	1044	867	1207
85°	1145	979	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	4.2
10°-20°	443.0	12.0
20°-30°	657.0	17.8
30°-40°	741.1	20.1
40°-50°	671.2	18.2
50°-60°	484.3	13.1
60°-70°	289.1	7.8
70°-80°	178.7	4.8
80°-90°	75.3	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°	1255.3	34.0
0°-40°	1996.4	54.0
0°-60°	3151.9	85.3
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1641	1639	1632	1630	1636	156
15°	1582	1573	1566	1567	1573	446
25°	1442	1434	1426	1421	1425	662
35°	1197	1195	1183	1184	1185	749
45°	890	885	878	857	844	686
55°	586	568	534	508	506	523
65°	330	291	249	283	302	332
75°	185	160	142	176	204	197
85°	74	65	63	83	84	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.4	1639.4	1639.4	1639.4	1639.4
2.5°	1645.1	1640.6	1634.9	1638.3	1641.1
5°	1641.1	1638.9	1632.0	1630.3	1636.0
7.5°	1632.6	1626.9	1620.6	1623.4	1621.2
10°	1619.4	1614.3	1606.3	1606.9	1610.9
12.5°	1603.5	1597.2	1588.6	1590.9	1594.3
15°	1582.3	1572.6	1566.4	1566.9	1573.2
17.5°	1555.5	1548.1	1540.1	1541.8	1544.7
20°	1524.7	1520.7	1509.3	1505.9	1508.7
22.5°	1485.9	1478.5	1472.2	1470.5	1471.0
25°	1441.9	1433.9	1426.5	1421.4	1425.4
27.5°	1390.5	1383.7	1374.0	1372.3	1375.7
30°	1332.3	1327.2	1318.6	1316.3	1321.5
32.5°	1273.0	1264.4	1252.4	1252.4	1253.5
35°	1197.0	1195.3	1183.3	1183.9	1185.0
37.5°	1128.5	1120.5	1113.7	1106.8	1110.3
40°	1052.6	1043.5	1034.3	1029.8	1028.1
42.5°	971.0	964.1	960.1	943.6	939.6
45°	890.5	884.8	878.5	856.8	843.7
47.5°	808.3	807.2	802.0	763.8	750.6
50°	731.8	730.1	711.8	671.3	658.2
52.5°	659.3	647.9	623.9	584.0	581.7
55°	586.2	568.0	533.7	507.5	506.3
57.5°	509.2	487.5	452.7	438.4	445.8
60°	447.5	414.4	374.5	376.2	388.2
62.5°	383.6	346.5	307.1	324.2	338.5
65°	329.9	290.6	248.9	282.6	302.0
67.5°	283.1	246.6	206.6	251.7	270.6
70°	244.3	214.6	175.8	223.2	244.3
72.5°	213.5	186.1	155.8	200.4	224.9
75°	184.9	160.4	141.6	176.4	203.8
77.5°	160.4	136.4	127.9	155.8	182.7
80°	134.7	113.0	111.9	135.9	155.8
82.5°	105.0	90.2	90.2	113.6	125.6
85°	74.2	65.1	63.4	82.8	83.9
87.5°	38.2	36.5	33.1	43.4	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)