

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: P294260

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4639.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

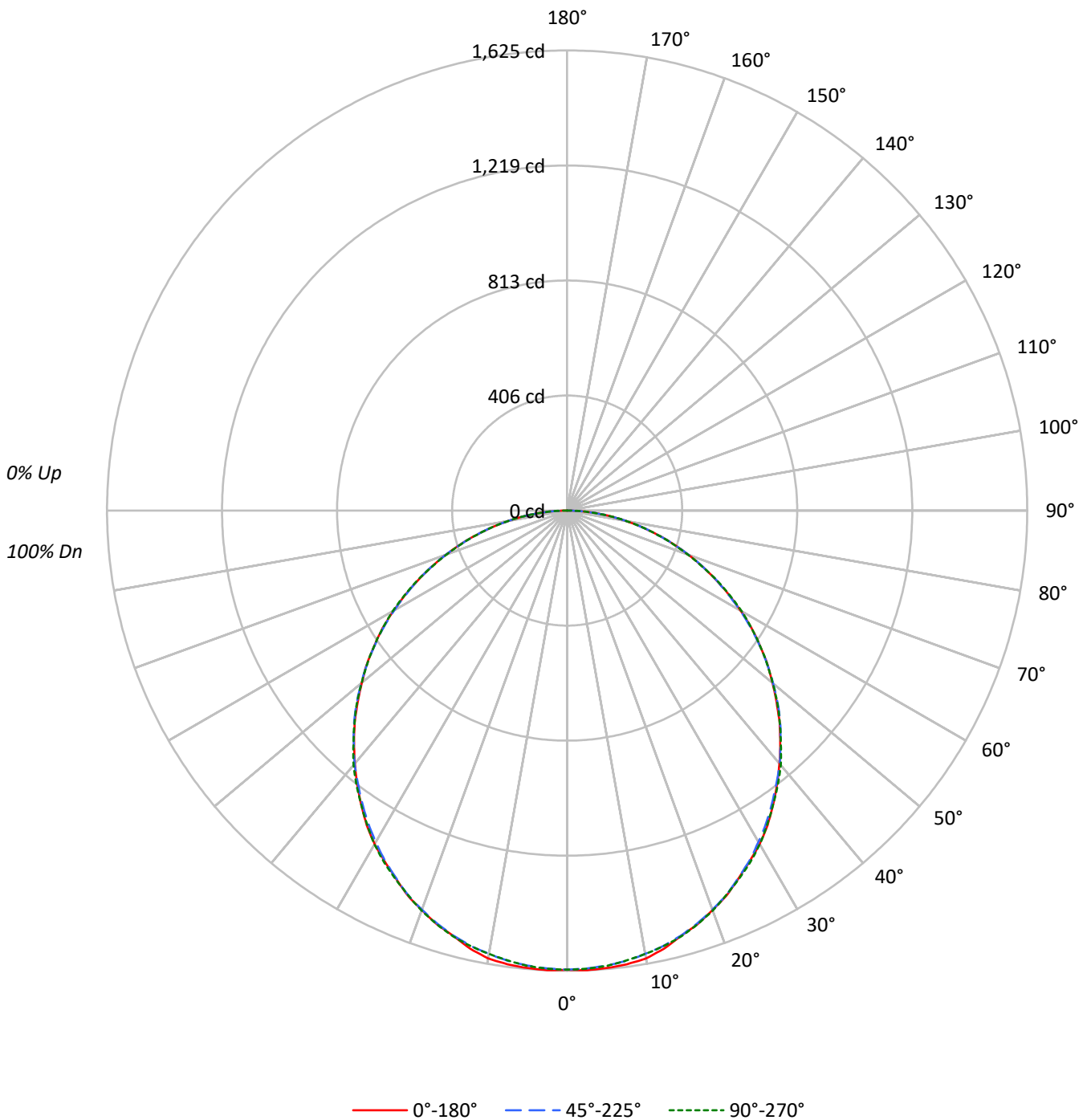
Input Watts (W): 38.688
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2182	2182	2182
5°	2190	2178	2180
10°	2194	2172	2172
15°	2165	2164	2169
20°	2149	2148	2152
25°	2126	2124	2131
30°	2113	2099	2115
35°	2083	2072	2083
40°	2049	2050	2062
45°	2019	2026	2021
50°	1981	1988	1983
55°	1951	1945	1951
60°	1905	1899	1917
65°	1846	1853	1860
70°	1786	1795	1782
75°	1723	1723	1723
80°	1628	1628	1644
85°	1504	1521	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.3
10°-20°	438.3	9.4
20°-30°	660.5	14.2
30°-40°	791.1	17.1
40°-50°	818.8	17.7
50°-60°	742.5	16.0
60°-70°	575.6	12.4
70°-80°	350.1	7.5
80°-90°	108.9	2.3
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°	1252.0	27.0
0°-40°	2043.1	44.0
0°-60°	3604.4	77.7
0°-90°	4639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1621	1612	1613	1610	1614	154
15°	1555	1556	1554	1548	1557	440
25°	1432	1432	1431	1435	1435	661
35°	1268	1259	1261	1267	1268	793
45°	1061	1063	1064	1060	1062	818
55°	832	827	829	833	832	743
65°	580	583	582	580	584	575
75°	332	330	332	330	332	350
85°	97	96	98	97	95	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.4	1621.4	1621.4	1621.4	1621.4
2.5°	1624.7	1618.1	1618.1	1615.9	1619.2
5°	1621.4	1611.5	1612.6	1610.4	1613.7
7.5°	1615.9	1602.8	1603.9	1601.7	1602.8
10°	1606.1	1590.8	1589.7	1588.6	1589.7
12.5°	1584.2	1575.4	1574.3	1572.2	1575.4
15°	1554.6	1555.7	1553.6	1548.1	1556.8
17.5°	1531.7	1530.6	1528.4	1522.9	1531.7
20°	1501.0	1502.1	1499.9	1497.8	1503.2
22.5°	1471.5	1468.2	1469.3	1468.2	1469.3
25°	1432.1	1432.1	1431.0	1435.4	1435.4
27.5°	1396.0	1391.6	1393.8	1398.2	1400.4
30°	1359.9	1349.0	1351.2	1355.5	1361.0
32.5°	1317.2	1306.3	1308.5	1312.9	1315.0
35°	1268.0	1259.3	1261.4	1266.9	1268.0
37.5°	1217.7	1212.2	1214.4	1218.8	1222.1
40°	1166.3	1164.1	1167.4	1166.3	1173.9
42.5°	1113.7	1112.6	1115.9	1115.9	1117.0
45°	1061.2	1063.4	1064.5	1060.1	1062.3
47.5°	1003.2	1004.3	1008.7	1006.5	1007.6
50°	946.4	945.3	949.6	950.7	947.4
52.5°	891.7	886.2	890.6	892.7	890.6
55°	831.5	827.1	829.3	832.6	831.5
57.5°	772.4	768.0	769.1	774.6	772.4
60°	707.9	706.8	705.7	710.0	712.2
62.5°	644.4	643.3	641.1	645.5	647.7
65°	579.8	583.1	582.0	579.8	584.2
67.5°	518.6	521.9	518.6	516.4	516.4
70°	454.0	457.3	456.2	454.0	452.9
72.5°	393.9	393.9	391.7	390.6	391.7
75°	331.5	330.4	331.5	330.4	331.5
77.5°	270.2	271.3	271.3	271.3	270.2
80°	210.1	210.1	210.1	211.2	212.2
82.5°	154.3	151.0	154.3	152.1	153.2
85°	97.4	96.3	98.5	97.4	95.2
87.5°	43.8	44.9	44.9	46.0	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)