

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: P294395

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294395
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-LD5-64-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

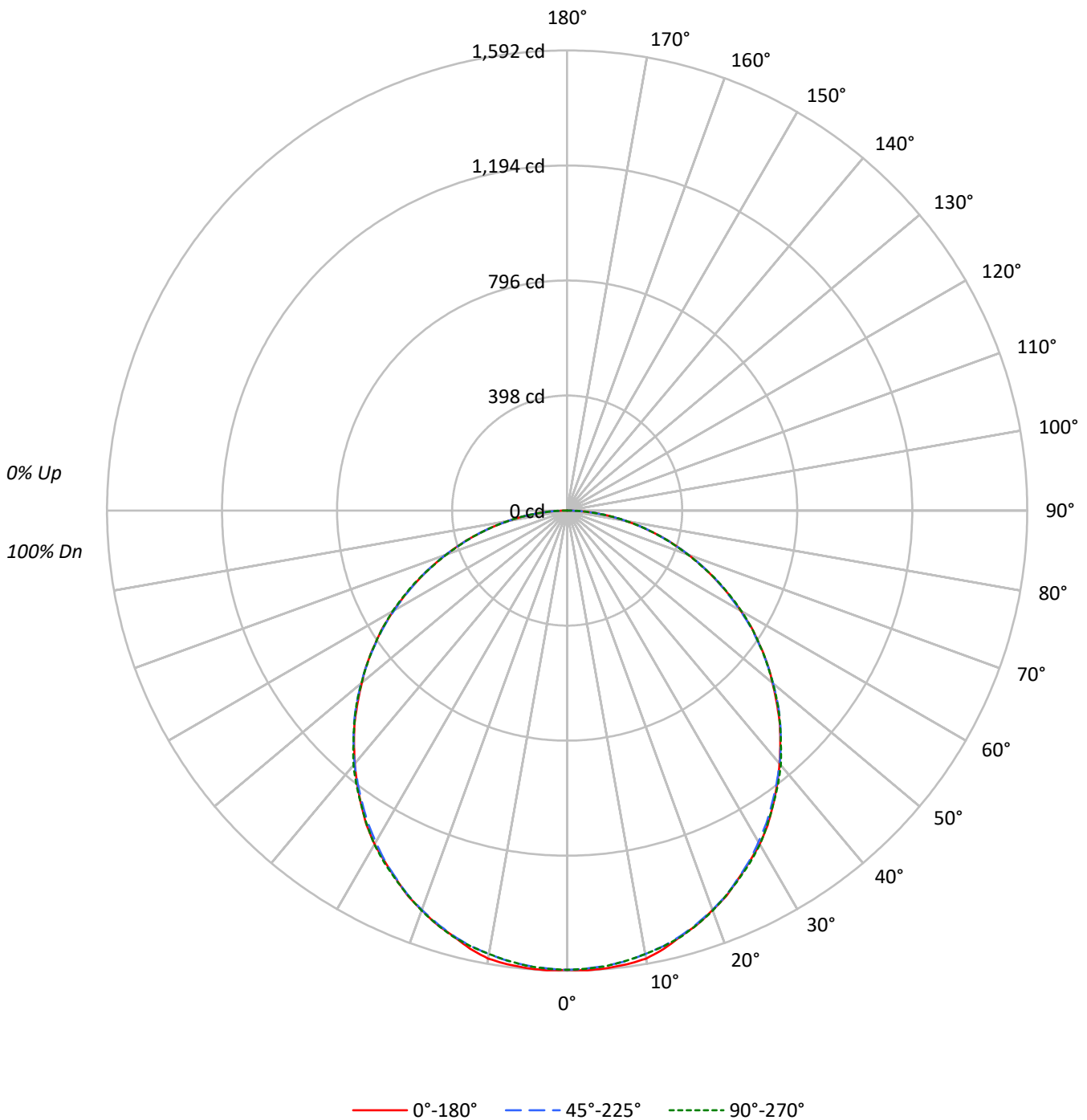
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2138	2138	2138
5°	2146	2134	2136
10°	2150	2128	2128
15°	2122	2121	2125
20°	2106	2105	2109
25°	2083	2082	2088
30°	2070	2057	2072
35°	2041	2031	2041
40°	2007	2009	2021
45°	1979	1985	1981
50°	1941	1948	1944
55°	1911	1906	1911
60°	1867	1861	1878
65°	1809	1816	1823
70°	1750	1759	1746
75°	1689	1689	1689
80°	1595	1595	1612
85°	1473	1490	1440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.3
10°-20°	429.5	9.4
20°-30°	647.2	14.2
30°-40°	775.2	17.1
40°-50°	802.4	17.7
50°-60°	727.6	16.0
60°-70°	564.1	12.4
70°-80°	343.0	7.5
80°-90°	106.7	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°	1227.0	27.0
0°-40°	2002.2	44.0
0°-60°	3532.2	77.7
0°-90°	4546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1589	1579	1580	1578	1581	151
15°	1524	1525	1522	1517	1526	431
25°	1403	1403	1402	1407	1407	648
35°	1243	1234	1236	1242	1243	777
45°	1040	1042	1043	1039	1041	801
55°	815	810	813	816	815	728
65°	568	571	570	568	572	564
75°	325	324	325	324	325	343
85°	95	94	96	95	93	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1592.1	1585.7	1585.7	1583.5	1586.7
5°	1588.9	1579.2	1580.3	1578.2	1581.4
7.5°	1583.5	1570.7	1571.7	1569.6	1570.7
10°	1573.9	1558.9	1557.8	1556.7	1557.8
12.5°	1552.4	1543.9	1542.8	1540.6	1543.9
15°	1523.5	1524.6	1522.4	1517.0	1525.6
17.5°	1501.0	1499.9	1497.7	1492.4	1501.0
20°	1470.9	1472.0	1469.9	1467.7	1473.1
22.5°	1442.0	1438.8	1439.9	1438.8	1439.9
25°	1403.4	1403.4	1402.3	1406.6	1406.6
27.5°	1368.0	1363.7	1365.9	1370.2	1372.3
30°	1332.6	1321.9	1324.1	1328.4	1333.7
32.5°	1290.8	1280.1	1282.3	1286.5	1288.7
35°	1242.6	1234.0	1236.2	1241.5	1242.6
37.5°	1193.3	1187.9	1190.1	1194.3	1197.6
40°	1142.9	1140.7	1144.0	1142.9	1150.4
42.5°	1091.4	1090.3	1093.6	1093.6	1094.6
45°	1040.0	1042.1	1043.2	1038.9	1041.0
47.5°	983.1	984.2	988.5	986.3	987.4
50°	927.4	926.3	930.6	931.7	928.5
52.5°	873.8	868.4	872.7	874.8	872.7
55°	814.8	810.5	812.7	815.9	814.8
57.5°	756.9	752.6	753.7	759.1	756.9
60°	693.7	692.6	691.5	695.8	697.9
62.5°	631.5	630.4	628.3	632.5	634.7
65°	568.2	571.4	570.4	568.2	572.5
67.5°	508.2	511.4	508.2	506.0	506.0
70°	444.9	448.1	447.1	444.9	443.9
72.5°	386.0	386.0	383.8	382.7	383.8
75°	324.9	323.8	324.9	323.8	324.9
77.5°	264.8	265.9	265.9	265.9	264.8
80°	205.8	205.8	205.8	206.9	208.0
82.5°	151.2	148.0	151.2	149.0	150.1
85°	95.4	94.3	96.5	95.4	93.3
87.5°	42.9	44.0	44.0	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)