

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: P294289

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294289
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-LD5-85-FGW080-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7214.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

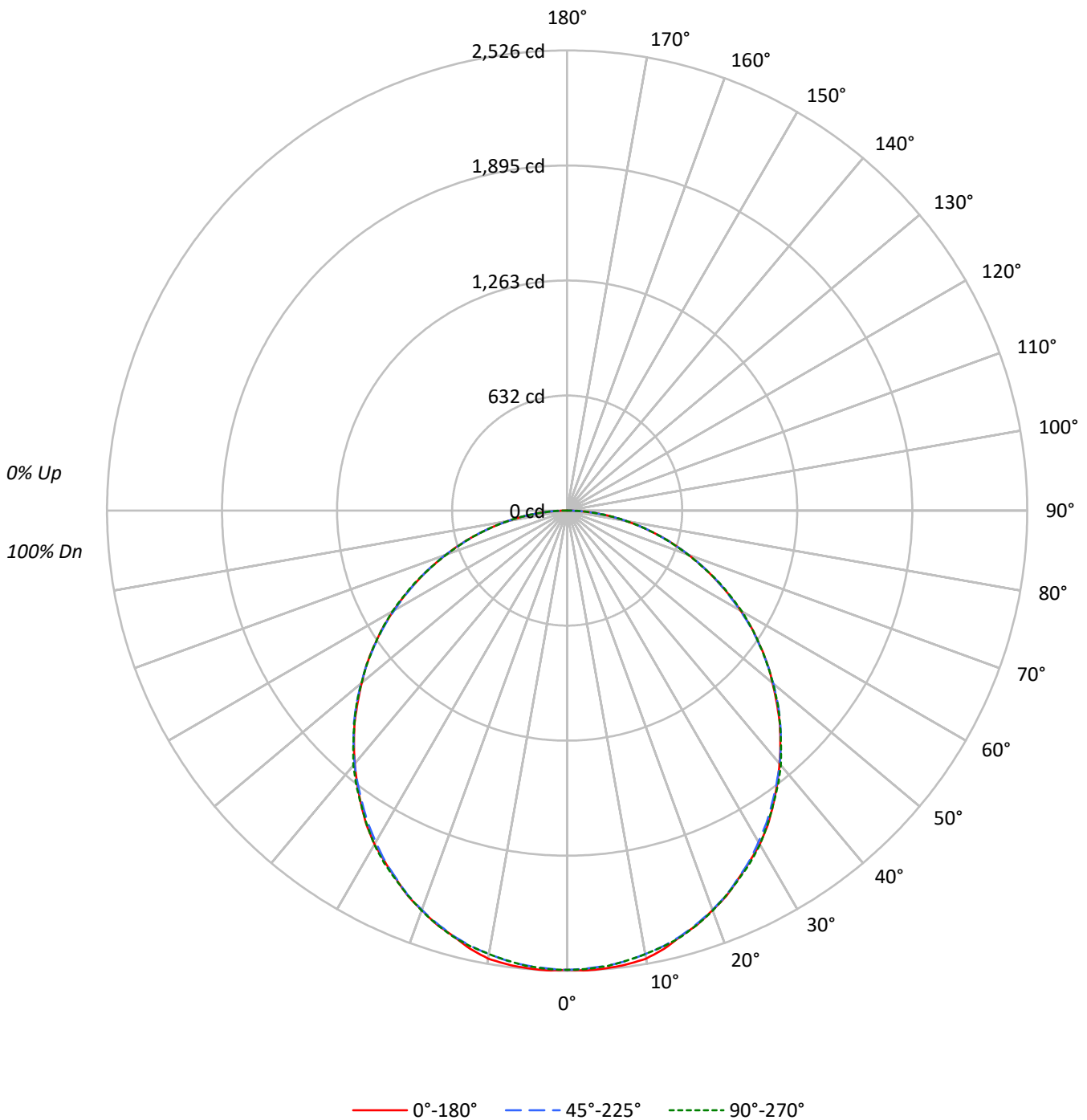
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3393	3393	3393
5°	3405	3387	3389
10°	3412	3377	3377
15°	3368	3365	3372
20°	3342	3340	3347
25°	3306	3304	3314
30°	3286	3264	3288
35°	3239	3222	3239
40°	3185	3188	3206
45°	3140	3150	3143
50°	3081	3091	3084
55°	3033	3025	3033
60°	2962	2953	2981
65°	2871	2882	2892
70°	2778	2791	2771
75°	2680	2680	2680
80°	2531	2531	2558
85°	2337	2364	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	3.3
10°-20°	681.5	9.4
20°-30°	1027.1	14.2
30°-40°	1230.2	17.1
40°-50°	1273.4	17.7
50°-60°	1154.6	16.0
60°-70°	895.1	12.4
70°-80°	544.4	7.5
80°-90°	169.4	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°	1947.0	27.0
0°-40°	3177.2	44.0
0°-60°	5605.1	77.7
0°-90°	7214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2521	2506	2508	2504	2510	240
15°	2418	2419	2416	2407	2421	684
25°	2227	2227	2225	2232	2232	1028
35°	1972	1958	1962	1970	1972	1234
45°	1650	1654	1655	1649	1652	1271
55°	1293	1286	1290	1295	1293	1156
65°	902	907	905	902	908	894
75°	516	514	516	514	516	545
85°	151	150	153	151	148	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2521.4	2521.4	2521.4	2521.4	2521.4
2.5°	2526.5	2516.3	2516.3	2512.9	2518.0
5°	2521.4	2506.1	2507.8	2504.4	2509.5
7.5°	2512.9	2492.5	2494.2	2490.8	2492.5
10°	2497.6	2473.7	2472.0	2470.3	2472.0
12.5°	2463.5	2449.9	2448.2	2444.8	2449.9
15°	2417.6	2419.3	2415.9	2407.4	2421.0
17.5°	2381.9	2380.2	2376.8	2368.3	2381.9
20°	2334.2	2335.9	2332.5	2329.1	2337.6
22.5°	2288.3	2283.2	2284.9	2283.2	2284.9
25°	2227.0	2227.0	2225.3	2232.1	2232.1
27.5°	2170.9	2164.1	2167.5	2174.3	2177.7
30°	2114.8	2097.7	2101.1	2108.0	2116.5
32.5°	2048.4	2031.4	2034.8	2041.6	2045.0
35°	1971.8	1958.2	1961.6	1970.1	1971.8
37.5°	1893.6	1885.1	1888.5	1895.3	1900.4
40°	1813.6	1810.2	1815.3	1813.6	1825.5
42.5°	1732.0	1730.3	1735.4	1735.4	1737.1
45°	1650.3	1653.7	1655.4	1648.6	1652.0
47.5°	1560.1	1561.8	1568.6	1565.2	1566.9
50°	1471.7	1470.0	1476.8	1478.5	1473.4
52.5°	1386.6	1378.1	1384.9	1388.3	1384.9
55°	1293.0	1286.2	1289.6	1294.7	1293.0
57.5°	1201.1	1194.3	1196.0	1204.5	1201.1
60°	1100.8	1099.1	1097.4	1104.2	1107.6
62.5°	1002.1	1000.4	997.0	1003.8	1007.2
65°	901.7	906.8	905.1	901.7	908.5
67.5°	806.4	811.5	806.4	803.0	803.0
70°	706.1	711.2	709.5	706.1	704.4
72.5°	612.5	612.5	609.1	607.4	609.1
75°	515.5	513.8	515.5	513.8	515.5
77.5°	420.2	421.9	421.9	421.9	420.2
80°	326.7	326.7	326.7	328.4	330.1
82.5°	239.9	234.8	239.9	236.5	238.2
85°	151.4	149.7	153.1	151.4	148.0
87.5°	68.1	69.8	69.8	71.5	71.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)