

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: P294285

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294285
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-LD5-72-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6589.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

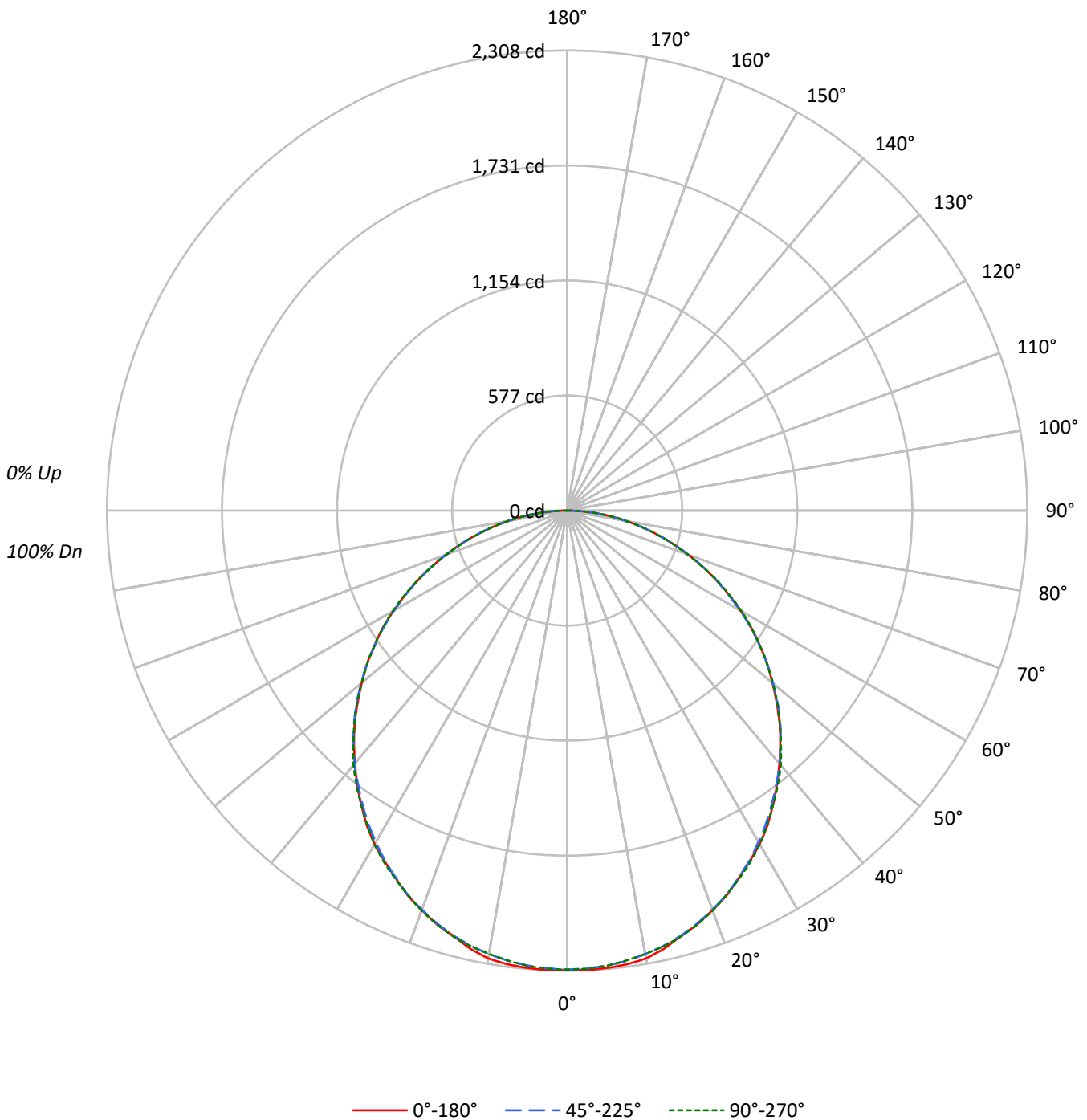
Input Watts (W): 54.87
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3099	3099	3099
5°	3110	3094	3096
10°	3117	3085	3085
15°	3076	3074	3080
20°	3053	3050	3057
25°	3020	3017	3027
30°	3001	2982	3003
35°	2958	2943	2958
40°	2909	2912	2929
45°	2868	2877	2871
50°	2814	2823	2817
55°	2770	2763	2770
60°	2706	2697	2722
65°	2622	2632	2642
70°	2537	2549	2531
75°	2447	2447	2447
80°	2312	2312	2336
85°	2135	2160	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	3.3
10°-20°	622.5	9.4
20°-30°	938.1	14.2
30°-40°	1123.6	17.1
40°-50°	1163.0	17.7
50°-60°	1054.6	16.0
60°-70°	817.6	12.4
70°-80°	497.2	7.5
80°-90°	154.7	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°	1778.3	27.0
0°-40°	2901.9	44.0
0°-60°	5119.5	77.7
0°-90°	6589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2303	2289	2290	2287	2292	219
15°	2208	2210	2207	2199	2211	624
25°	2034	2034	2032	2039	2039	939
35°	1801	1789	1792	1800	1801	1127
45°	1507	1510	1512	1506	1509	1161
55°	1181	1175	1178	1182	1181	1056
65°	824	828	827	824	830	817
75°	471	469	471	469	471	497
85°	138	137	140	138	135	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2302.9	2302.9	2302.9	2302.9	2302.9
2.5°	2307.6	2298.3	2298.3	2295.2	2299.8
5°	2302.9	2288.9	2290.5	2287.4	2292.1
7.5°	2295.2	2276.5	2278.1	2275.0	2276.5
10°	2281.2	2259.4	2257.9	2256.3	2257.9
12.5°	2250.1	2237.7	2236.1	2233.0	2237.7
15°	2208.1	2209.7	2206.6	2198.8	2211.2
17.5°	2175.5	2174.0	2170.8	2163.1	2175.5
20°	2132.0	2133.6	2130.4	2127.3	2135.1
22.5°	2090.0	2085.4	2086.9	2085.4	2086.9
25°	2034.1	2034.1	2032.5	2038.8	2038.8
27.5°	1982.8	1976.6	1979.7	1985.9	1989.0
30°	1931.5	1916.0	1919.1	1925.3	1933.1
32.5°	1870.9	1855.4	1858.5	1864.7	1867.8
35°	1801.0	1788.6	1791.7	1799.5	1801.0
37.5°	1729.5	1721.8	1724.9	1731.1	1735.7
40°	1656.5	1653.4	1658.0	1656.5	1667.4
42.5°	1581.9	1580.4	1585.0	1585.0	1586.6
45°	1507.3	1510.4	1512.0	1505.8	1508.9
47.5°	1425.0	1426.5	1432.7	1429.6	1431.2
50°	1344.2	1342.6	1348.8	1350.4	1345.7
52.5°	1266.5	1258.7	1264.9	1268.0	1264.9
55°	1181.0	1174.8	1177.9	1182.5	1181.0
57.5°	1097.1	1090.9	1092.4	1100.2	1097.1
60°	1005.4	1003.8	1002.3	1008.5	1011.6
62.5°	915.3	913.7	910.6	916.8	919.9
65°	823.6	828.2	826.7	823.6	829.8
67.5°	736.6	741.2	736.6	733.5	733.5
70°	644.9	649.5	648.0	644.9	643.3
72.5°	559.4	559.4	556.3	554.8	556.3
75°	470.8	469.3	470.8	469.3	470.8
77.5°	383.8	385.4	385.4	385.4	383.8
80°	298.4	298.4	298.4	299.9	301.5
82.5°	219.1	214.4	219.1	216.0	217.6
85°	138.3	136.7	139.9	138.3	135.2
87.5°	62.2	63.7	63.7	65.3	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)