

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: P294282

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294282
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6491.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

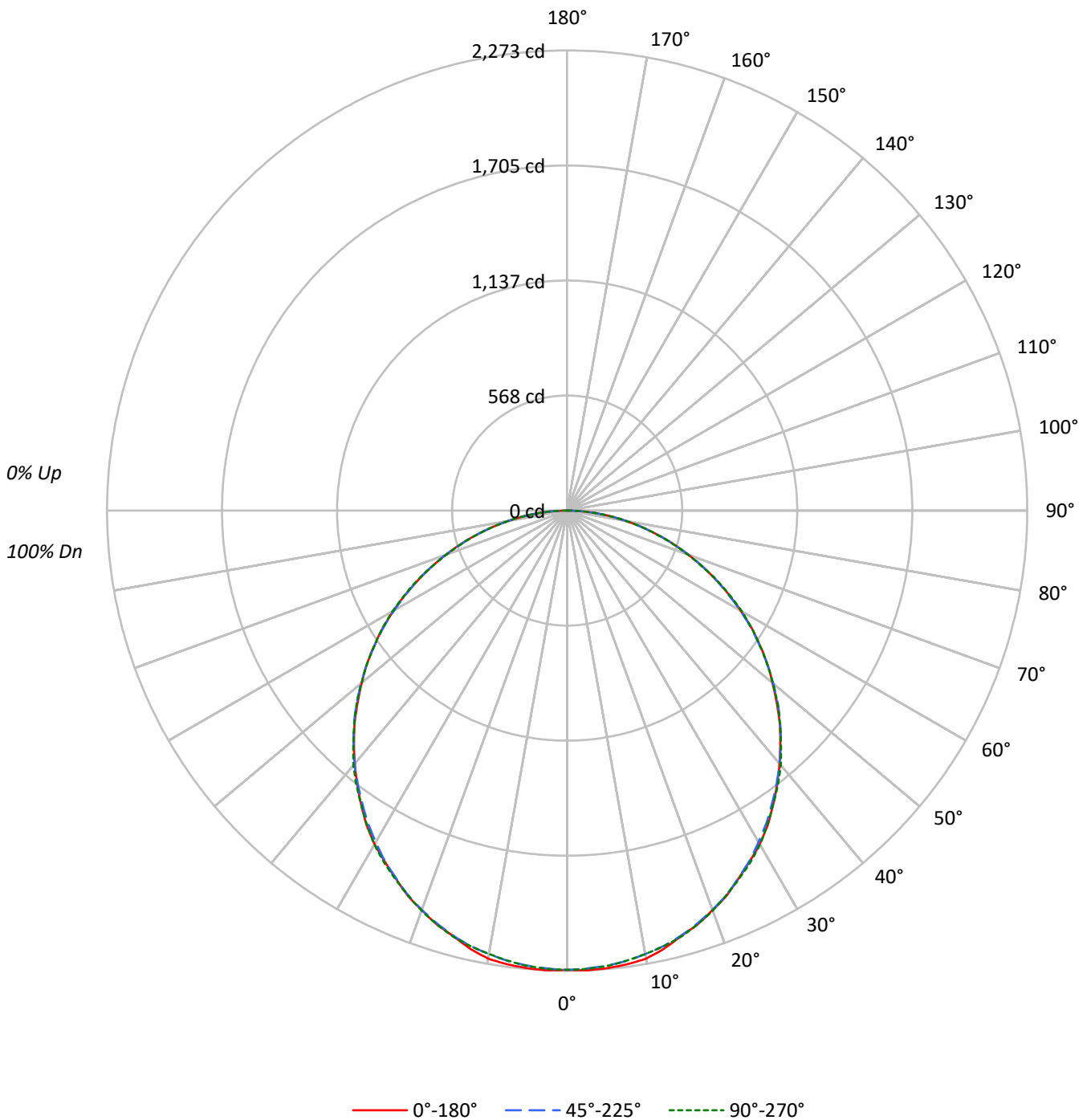
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3053	3053	3053
5°	3064	3048	3050
10°	3070	3039	3039
15°	3030	3028	3034
20°	3007	3005	3012
25°	2975	2973	2982
30°	2956	2937	2959
35°	2914	2899	2914
40°	2866	2869	2885
45°	2825	2834	2828
50°	2772	2781	2775
55°	2729	2722	2729
60°	2665	2657	2682
65°	2583	2593	2603
70°	2499	2511	2493
75°	2411	2411	2411
80°	2277	2277	2301
85°	2103	2127	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	3.3
10°-20°	613.2	9.4
20°-30°	924.1	14.2
30°-40°	1106.9	17.1
40°-50°	1145.8	17.7
50°-60°	1038.9	16.0
60°-70°	805.4	12.4
70°-80°	489.8	7.5
80°-90°	152.4	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°	1751.9	27.0
0°-40°	2858.8	44.0
0°-60°	5043.4	77.7
0°-90°	6491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2269	2269	2269	2269	2269	
5°	2269	2255	2256	2253	2258	216
15°	2175	2177	2174	2166	2178	615
25°	2004	2004	2002	2008	2008	925
35°	1774	1762	1765	1773	1774	1110
45°	1485	1488	1490	1483	1486	1144
55°	1163	1157	1160	1165	1163	1040
65°	811	816	814	811	818	805
75°	464	462	464	462	464	490
85°	136	135	138	136	133	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2268.7	2268.7	2268.7	2268.7	2268.7
2.5°	2273.3	2264.1	2264.1	2261.0	2265.6
5°	2268.7	2254.9	2256.4	2253.4	2258.0
7.5°	2261.0	2242.7	2244.2	2241.1	2242.7
10°	2247.2	2225.8	2224.3	2222.8	2224.3
12.5°	2216.6	2204.4	2202.9	2199.8	2204.4
15°	2175.3	2176.8	2173.8	2166.1	2178.4
17.5°	2143.2	2141.6	2138.6	2130.9	2143.2
20°	2100.3	2101.8	2098.8	2095.7	2103.4
22.5°	2059.0	2054.4	2055.9	2054.4	2055.9
25°	2003.8	2003.8	2002.3	2008.4	2008.4
27.5°	1953.3	1947.2	1950.3	1956.4	1959.5
30°	1902.8	1887.5	1890.6	1896.7	1904.3
32.5°	1843.1	1827.8	1830.9	1837.0	1840.0
35°	1774.2	1762.0	1765.0	1772.7	1774.2
37.5°	1703.8	1696.2	1699.2	1705.3	1709.9
40°	1631.9	1628.8	1633.4	1631.9	1642.6
42.5°	1558.4	1556.8	1561.4	1561.4	1563.0
45°	1484.9	1488.0	1489.5	1483.4	1486.4
47.5°	1403.8	1405.3	1411.4	1408.4	1409.9
50°	1324.2	1322.6	1328.8	1330.3	1325.7
52.5°	1247.6	1240.0	1246.1	1249.2	1246.1
55°	1163.4	1157.3	1160.4	1165.0	1163.4
57.5°	1080.8	1074.6	1076.2	1083.8	1080.8
60°	990.4	988.9	987.4	993.5	996.6
62.5°	901.7	900.1	897.1	903.2	906.2
65°	811.3	815.9	814.4	811.3	817.5
67.5°	725.6	730.2	725.6	722.5	722.5
70°	635.3	639.9	638.4	635.3	633.8
72.5°	551.1	551.1	548.0	546.5	548.0
75°	463.8	462.3	463.8	462.3	463.8
77.5°	378.1	379.6	379.6	379.6	378.1
80°	293.9	293.9	293.9	295.4	297.0
82.5°	215.8	211.3	215.8	212.8	214.3
85°	136.2	134.7	137.8	136.2	133.2
87.5°	61.2	62.8	62.8	64.3	64.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)