

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: P292941

Luminaire Tested: **24GR-LD5-64-F1-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6719.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

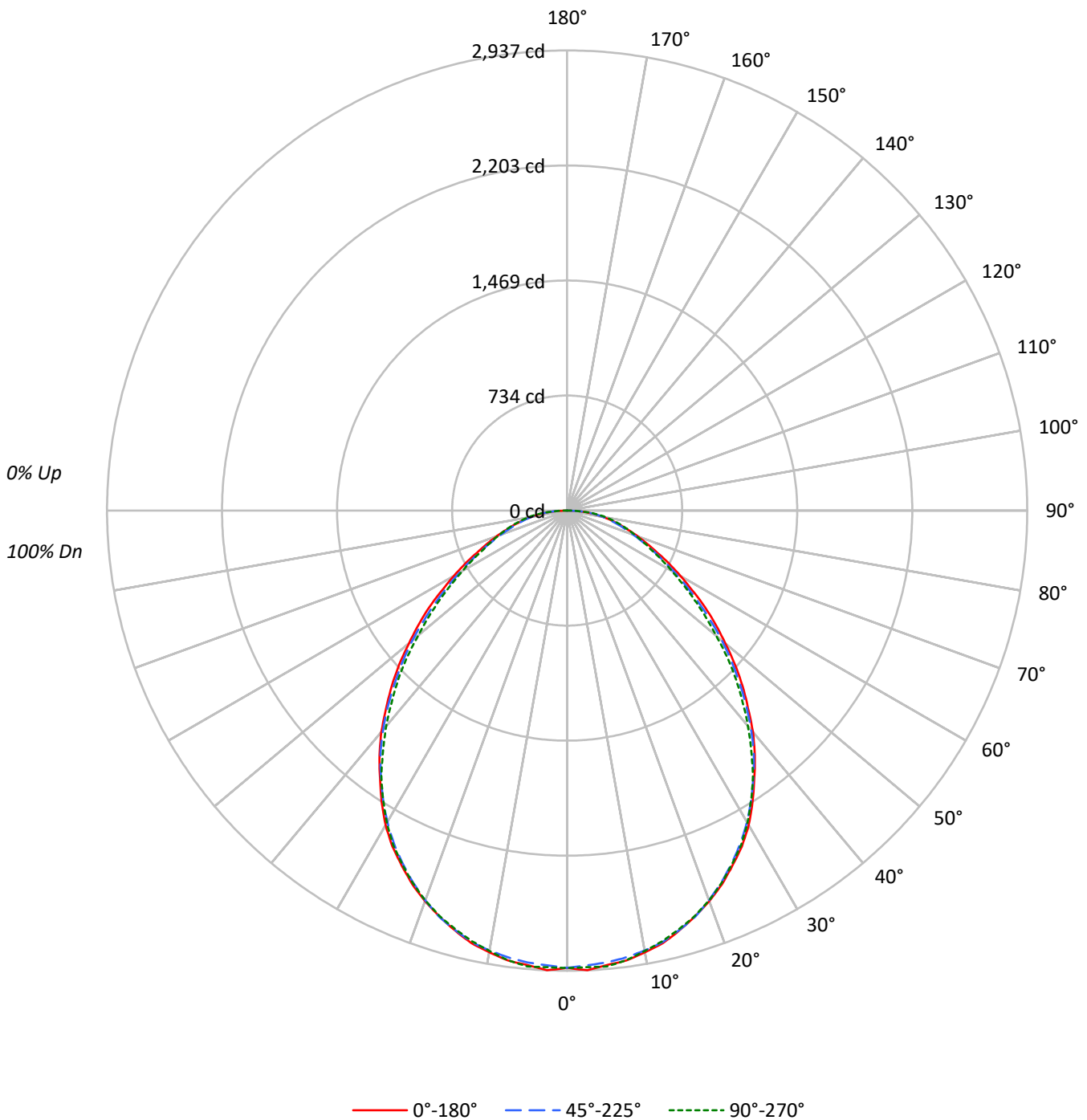
Input Watts (W): 46.965
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3927	3927	3927
5°	3932	3910	3944
10°	3912	3895	3898
15°	3863	3859	3849
20°	3798	3790	3790
25°	3710	3689	3697
30°	3602	3565	3576
35°	3421	3405	3396
40°	3240	3211	3155
45°	3011	2959	2901
50°	2759	2698	2596
55°	2519	2406	2324
60°	2245	2137	2081
65°	2021	1915	1888
70°	1875	1761	1832
75°	1794	1714	1858
80°	1793	1793	1987
85°	1862	1883	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	4.1
10°-20°	780.0	11.6
20°-30°	1144.8	17.0
30°-40°	1294.2	19.3
40°-50°	1196.1	17.8
50°-60°	921.6	13.7
60°-70°	610.3	9.1
70°-80°	363.3	5.4
80°-90°	133.1	2.0
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°	2200.4	32.7
0°-40°	3494.7	52.0
0°-60°	5612.4	83.5
0°-90°	6719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2912	2912	2895	2896	2920	277
15°	2773	2768	2770	2769	2763	782
25°	2499	2492	2485	2482	2490	1151
35°	2083	2080	2073	2064	2068	1303
45°	1583	1572	1555	1527	1524	1219
55°	1074	1052	1026	998	991	958
65°	635	625	602	596	593	636
75°	345	337	330	345	358	368
85°	121	114	122	134	136	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.6	2918.6	2918.6	2918.6	2918.6
2.5°	2936.6	2921.3	2904.7	2904.7	2917.2
5°	2911.6	2911.6	2895.0	2896.4	2920.0
7.5°	2896.4	2888.1	2877.0	2877.0	2895.0
10°	2863.1	2856.2	2850.7	2847.9	2853.4
12.5°	2827.1	2816.0	2820.2	2816.0	2814.6
15°	2773.1	2767.5	2770.3	2768.9	2763.4
17.5°	2714.9	2712.1	2717.6	2707.9	2712.1
20°	2652.5	2644.2	2647.0	2641.4	2647.0
22.5°	2581.8	2576.3	2569.3	2562.4	2573.5
25°	2498.7	2491.7	2484.8	2482.0	2490.4
27.5°	2415.5	2404.4	2394.7	2392.0	2404.4
30°	2318.5	2306.0	2294.9	2292.2	2301.9
32.5°	2203.5	2200.7	2186.9	2181.3	2185.5
35°	2082.9	2080.1	2073.2	2063.5	2067.7
37.5°	1967.9	1966.5	1956.8	1940.2	1929.1
40°	1844.6	1834.8	1827.9	1804.4	1796.0
42.5°	1708.7	1706.0	1693.5	1667.2	1657.5
45°	1582.6	1571.5	1554.9	1527.2	1524.4
47.5°	1452.4	1437.1	1421.9	1387.2	1385.8
50°	1317.9	1306.8	1288.8	1254.2	1240.3
52.5°	1193.2	1178.0	1153.0	1119.8	1112.8
55°	1074.0	1051.9	1025.5	997.8	990.9
57.5°	946.5	936.8	905.0	882.8	874.5
60°	834.3	826.0	794.1	773.3	773.3
62.5°	733.1	720.6	692.9	679.1	679.1
65°	634.7	625.0	601.5	595.9	593.1
67.5°	550.2	537.7	521.1	519.7	526.6
70°	476.7	461.5	447.6	461.5	465.6
72.5°	407.4	397.7	385.3	403.3	411.6
75°	345.1	336.8	329.8	345.1	357.5
77.5°	288.3	279.9	279.9	296.6	307.7
80°	231.4	225.9	231.4	245.3	256.4
82.5°	177.4	173.2	180.2	194.0	200.9
85°	120.6	113.6	122.0	134.4	135.8
87.5°	56.8	55.4	61.0	69.3	67.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)