

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: P293016

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293016
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6689.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

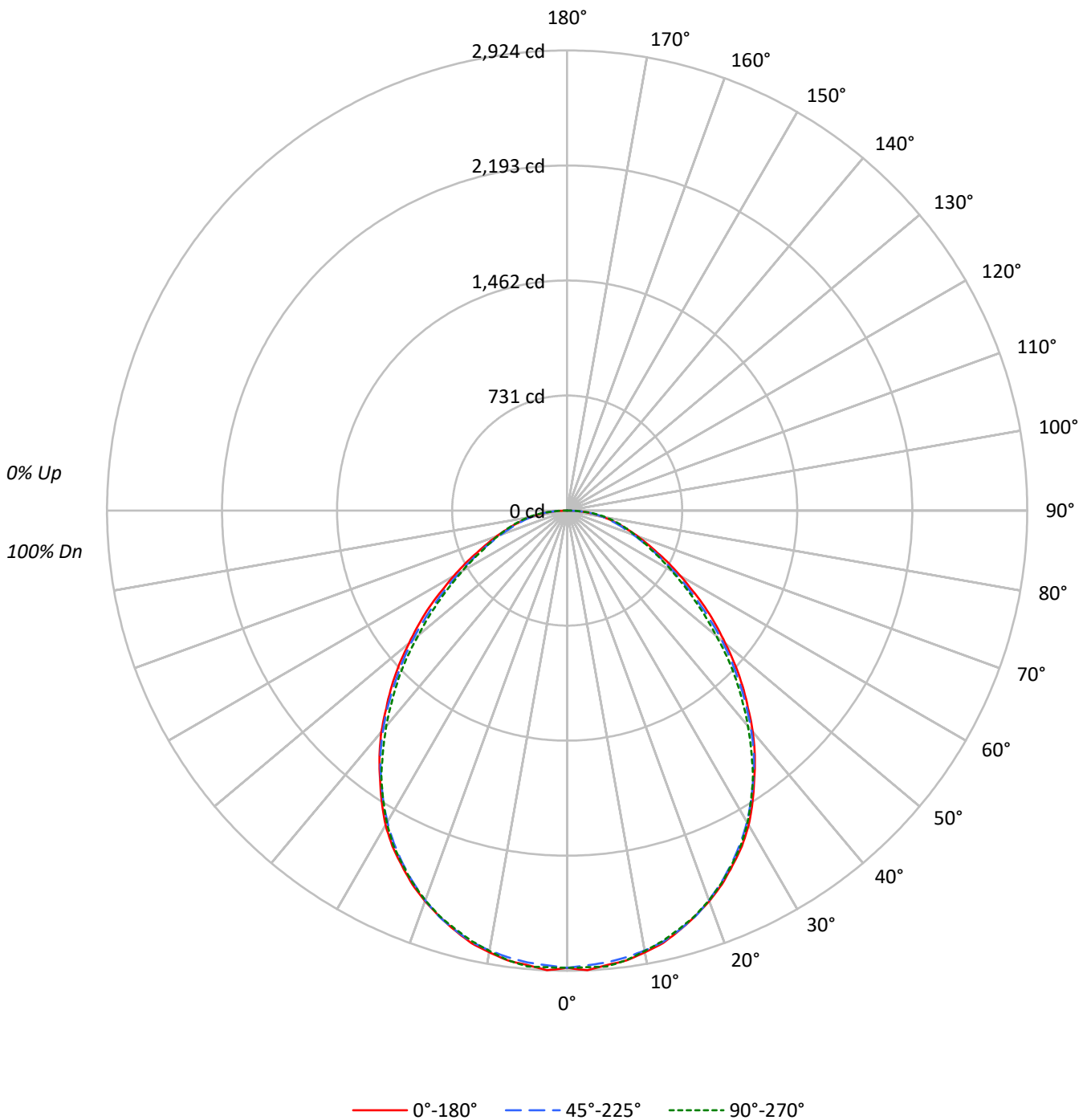
Input Watts (W): 47.988
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3909	3909	3909
5°	3915	3893	3926
10°	3894	3877	3881
15°	3846	3842	3832
20°	3781	3773	3773
25°	3693	3672	3681
30°	3586	3550	3560
35°	3406	3390	3381
40°	3225	3196	3140
45°	2998	2946	2888
50°	2746	2686	2585
55°	2508	2395	2314
60°	2235	2127	2072
65°	2012	1906	1880
70°	1867	1753	1824
75°	1786	1707	1850
80°	1785	1785	1977
85°	1853	1874	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	4.1
10°-20°	776.5	11.6
20°-30°	1139.7	17.0
30°-40°	1288.5	19.3
40°-50°	1190.8	17.8
50°-60°	917.5	13.7
60°-70°	607.5	9.1
70°-80°	361.7	5.4
80°-90°	132.5	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°	2190.6	32.7
0°-40°	3479.1	52.0
0°-60°	5587.3	83.5
0°-90°	6689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2899	2899	2882	2884	2907	275
15°	2761	2755	2758	2756	2751	778
25°	2488	2481	2474	2471	2479	1145
35°	2074	2071	2064	2054	2058	1298
45°	1576	1564	1548	1520	1518	1214
55°	1069	1047	1021	993	986	954
65°	632	622	599	593	590	633
75°	344	335	328	344	356	366
85°	120	113	121	134	135	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2923.5	2908.3	2891.7	2891.7	2904.2
5°	2898.6	2898.6	2882.1	2883.5	2906.9
7.5°	2883.5	2875.2	2864.2	2864.2	2882.1
10°	2850.4	2843.5	2837.9	2835.2	2840.7
12.5°	2814.5	2803.4	2807.6	2803.4	2802.1
15°	2760.7	2755.2	2757.9	2756.5	2751.0
17.5°	2702.7	2700.0	2705.5	2695.8	2700.0
20°	2640.7	2632.4	2635.1	2629.6	2635.1
22.5°	2570.3	2564.8	2557.9	2551.0	2562.0
25°	2487.5	2480.6	2473.7	2471.0	2479.2
27.5°	2404.7	2393.7	2384.0	2381.3	2393.7
30°	2308.2	2295.7	2284.7	2281.9	2291.6
32.5°	2193.6	2190.9	2177.1	2171.6	2175.7
35°	2073.6	2070.9	2064.0	2054.3	2058.4
37.5°	1959.1	1957.7	1948.1	1931.5	1920.5
40°	1836.3	1826.7	1819.8	1796.3	1788.0
42.5°	1701.1	1698.3	1685.9	1659.7	1650.1
45°	1575.6	1564.5	1548.0	1520.4	1517.6
47.5°	1445.9	1430.7	1415.5	1381.0	1379.7
50°	1312.0	1301.0	1283.1	1248.6	1234.8
52.5°	1187.9	1172.7	1147.9	1114.8	1107.9
55°	1069.2	1047.2	1020.9	993.3	986.4
57.5°	942.3	932.6	900.9	878.8	870.6
60°	830.5	822.3	790.5	769.8	769.8
62.5°	729.8	717.4	689.8	676.0	676.0
65°	631.9	622.2	598.8	593.2	590.5
67.5°	547.7	535.3	518.7	517.4	524.3
70°	474.6	459.4	445.6	459.4	463.6
72.5°	405.6	396.0	383.5	401.5	409.8
75°	343.5	335.3	328.4	343.5	355.9
77.5°	287.0	278.7	278.7	295.2	306.3
80°	230.4	224.9	230.4	244.2	255.2
82.5°	176.6	172.5	179.4	193.2	200.0
85°	120.0	113.1	121.4	133.8	135.2
87.5°	56.6	55.2	60.7	69.0	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)