

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: P292940

Luminaire Tested: **24GR-LD5-64-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292940
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

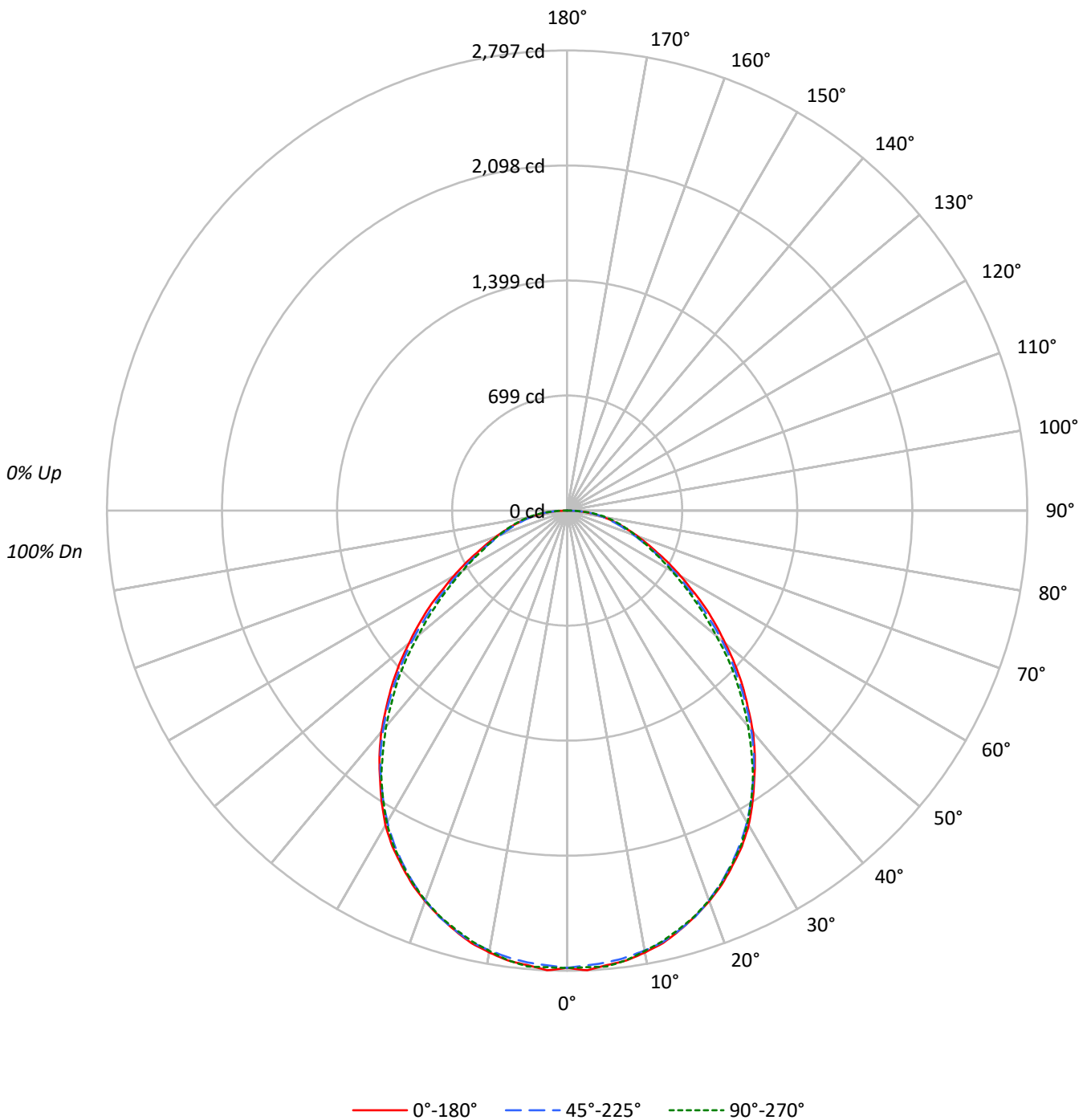
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3740	3740	3740
5°	3745	3724	3756
10°	3725	3709	3713
15°	3679	3675	3666
20°	3617	3610	3610
25°	3533	3513	3521
30°	3431	3396	3406
35°	3258	3243	3234
40°	3085	3058	3004
45°	2868	2818	2762
50°	2627	2569	2473
55°	2400	2291	2214
60°	2138	2035	1982
65°	1925	1824	1798
70°	1786	1677	1745
75°	1708	1633	1770
80°	1708	1708	1892
85°	1772	1792	1996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	4.1
10°-20°	742.9	11.6
20°-30°	1090.3	17.0
30°-40°	1232.6	19.3
40°-50°	1139.2	17.8
50°-60°	877.7	13.7
60°-70°	581.2	9.1
70°-80°	346.0	5.4
80°-90°	126.7	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°	2095.6	32.7
0°-40°	3328.2	52.0
0°-60°	5345.1	83.5
0°-90°	6399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2780	2780	2780	2780	2780	
5°	2773	2773	2757	2758	2781	264
15°	2641	2636	2638	2637	2632	744
25°	2380	2373	2366	2364	2372	1096
35°	1984	1981	1974	1965	1969	1241
45°	1507	1497	1481	1454	1452	1161
55°	1023	1002	977	950	944	912
65°	604	595	573	568	565	606
75°	329	321	314	329	340	350
85°	115	108	116	128	129	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.6	2779.6	2779.6	2779.6	2779.6
2.5°	2796.7	2782.2	2766.4	2766.4	2778.3
5°	2773.0	2773.0	2757.1	2758.5	2780.9
7.5°	2758.5	2750.5	2740.0	2740.0	2757.1
10°	2726.8	2720.2	2714.9	2712.3	2717.5
12.5°	2692.5	2681.9	2685.9	2681.9	2680.6
15°	2641.0	2635.7	2638.4	2637.0	2631.8
17.5°	2585.6	2582.9	2588.2	2579.0	2582.9
20°	2526.2	2518.2	2520.9	2515.6	2520.9
22.5°	2458.9	2453.6	2447.0	2440.4	2450.9
25°	2379.7	2373.1	2366.5	2363.8	2371.7
27.5°	2300.5	2289.9	2280.7	2278.0	2289.9
30°	2208.1	2196.2	2185.6	2183.0	2192.2
32.5°	2098.5	2095.9	2082.7	2077.4	2081.4
35°	1983.7	1981.1	1974.5	1965.2	1969.2
37.5°	1874.2	1872.8	1863.6	1847.8	1837.2
40°	1756.7	1747.5	1740.9	1718.4	1710.5
42.5°	1627.4	1624.7	1612.8	1587.8	1578.5
45°	1507.3	1496.7	1480.9	1454.5	1451.8
47.5°	1383.2	1368.7	1354.2	1321.2	1319.8
50°	1255.2	1244.6	1227.4	1194.5	1181.3
52.5°	1136.4	1121.9	1098.1	1066.4	1059.8
55°	1022.9	1001.8	976.7	950.3	943.7
57.5°	901.4	892.2	861.9	840.7	832.8
60°	794.5	786.6	756.3	736.5	736.5
62.5°	698.2	686.3	659.9	646.7	646.7
65°	604.5	595.2	572.8	567.5	564.9
67.5°	524.0	512.1	496.3	494.9	501.5
70°	454.0	439.5	426.3	439.5	443.5
72.5°	388.0	378.8	366.9	384.1	392.0
75°	328.6	320.7	314.1	328.6	340.5
77.5°	274.5	266.6	266.6	282.4	293.0
80°	220.4	215.1	220.4	233.6	244.2
82.5°	168.9	165.0	171.6	184.8	191.4
85°	114.8	108.2	116.1	128.0	129.3
87.5°	54.1	52.8	58.1	66.0	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)