

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: P293579

Luminaire Tested: **24GR-LD5-85-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6525.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

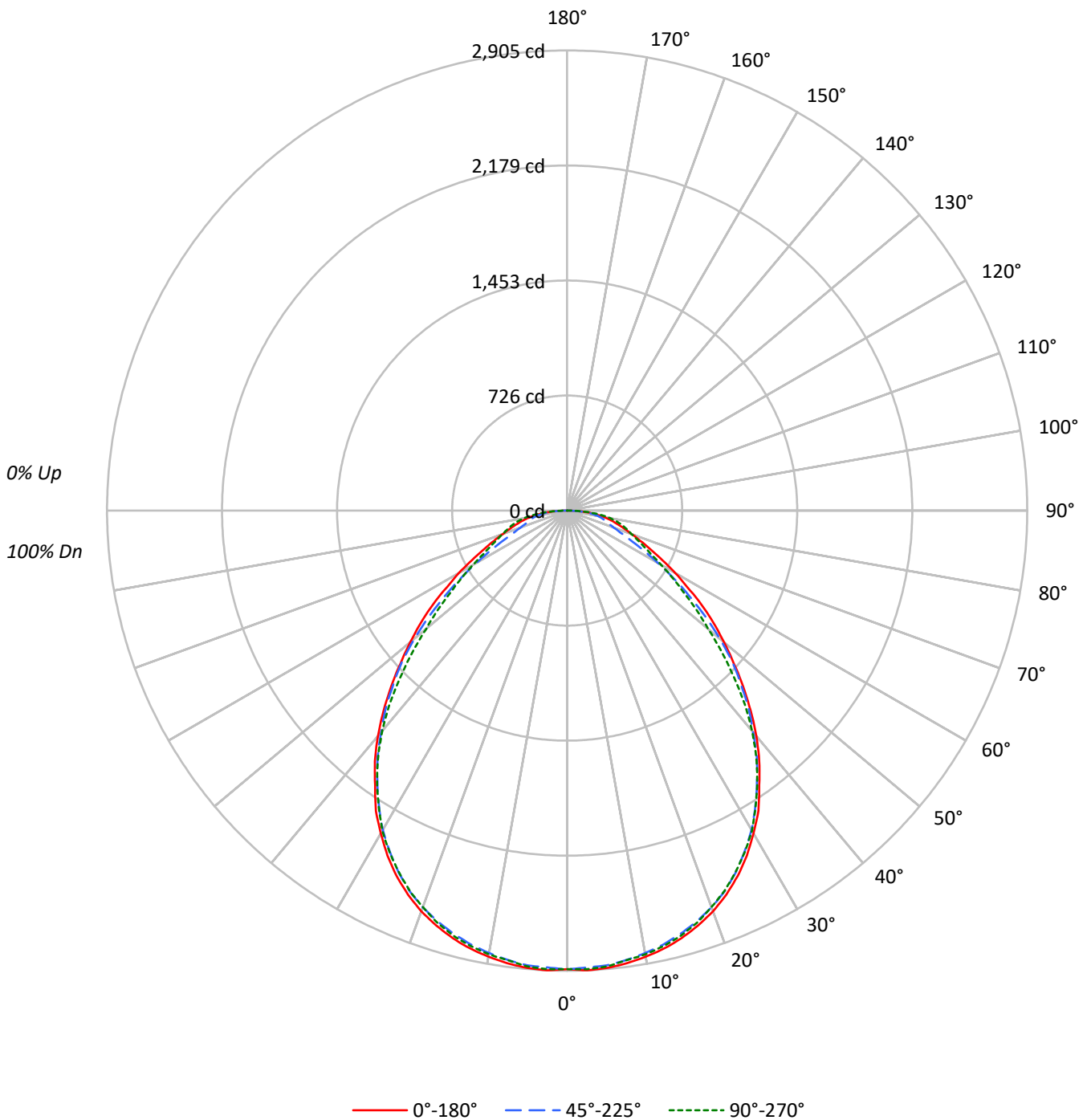
Input Watts (W): 63.838269
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3895	3895	3895
5°	3914	3893	3902
10°	3907	3875	3887
15°	3892	3853	3870
20°	3855	3816	3815
25°	3780	3740	3737
30°	3655	3618	3626
35°	3472	3432	3437
40°	3265	3208	3189
45°	2992	2952	2835
50°	2705	2631	2433
55°	2428	2211	2097
60°	2127	1780	1845
65°	1855	1399	1698
70°	1697	1221	1697
75°	1698	1300	1871
80°	1843	1531	2132
85°	2022	1727	2288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	4.2
10°-20°	782.4	12.0
20°-30°	1160.1	17.8
30°-40°	1308.7	20.1
40°-50°	1185.3	18.2
50°-60°	855.2	13.1
60°-70°	510.6	7.8
70°-80°	315.6	4.8
80°-90°	133.0	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°	2216.7	34.0
0°-40°	3525.4	54.0
0°-60°	5565.9	85.3
0°-90°	6525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2895	2895	2895	2895	2895	
5°	2898	2894	2882	2879	2889	275
15°	2794	2777	2766	2767	2778	788
25°	2546	2532	2519	2510	2517	1170
35°	2114	2111	2090	2091	2093	1323
45°	1572	1562	1551	1513	1490	1212
55°	1035	1003	942	896	894	924
65°	583	513	440	499	533	586
75°	327	283	250	312	360	349
85°	131	115	112	146	148	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2895.1	2895.1	2895.1	2895.1	2895.1
2.5°	2905.1	2897.1	2887.0	2893.1	2898.1
5°	2898.1	2894.1	2882.0	2878.9	2889.0
7.5°	2883.0	2872.9	2861.8	2866.8	2862.8
10°	2859.8	2850.7	2836.6	2837.6	2844.7
12.5°	2831.6	2820.5	2805.4	2809.4	2815.4
15°	2794.3	2777.1	2766.0	2767.0	2778.1
17.5°	2746.9	2733.8	2719.7	2722.7	2727.7
20°	2692.5	2685.4	2665.2	2659.2	2664.2
22.5°	2623.9	2610.8	2599.7	2596.7	2597.7
25°	2546.3	2532.2	2519.1	2510.0	2517.1
27.5°	2455.6	2443.5	2426.3	2423.3	2429.4
30°	2352.7	2343.7	2328.6	2324.5	2333.6
32.5°	2247.9	2232.8	2211.6	2211.6	2213.6
35°	2113.8	2110.8	2089.6	2090.7	2092.7
37.5°	1992.9	1978.8	1966.7	1954.6	1960.6
40°	1858.8	1842.7	1826.6	1818.5	1815.5
42.5°	1714.7	1702.6	1695.5	1666.3	1659.2
45°	1572.5	1562.4	1551.4	1513.1	1489.9
47.5°	1427.4	1425.4	1416.3	1348.7	1325.6
50°	1292.3	1289.3	1257.0	1185.4	1162.3
52.5°	1164.3	1144.1	1101.8	1031.2	1027.2
55°	1035.2	1003.0	942.5	896.1	894.1
57.5°	899.2	860.9	799.4	774.2	787.3
60°	790.3	731.8	661.3	664.3	685.5
62.5°	677.4	611.9	542.3	572.6	597.8
65°	582.6	513.1	439.5	499.0	533.2
67.5°	500.0	435.5	364.9	444.5	477.8
70°	431.4	379.0	310.5	394.1	431.4
72.5°	377.0	328.6	275.2	353.8	397.2
75°	326.6	283.3	250.0	311.5	359.9
77.5°	283.3	240.9	225.8	275.2	322.6
80°	237.9	199.6	197.6	239.9	275.2
82.5°	185.5	159.3	159.3	200.6	221.8
85°	131.0	114.9	111.9	146.2	148.2
87.5°	67.5	64.5	58.5	76.6	76.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)