

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: P293457

Luminaire Tested: **24GR-LD5-85-A-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293457
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-L83050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8889.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

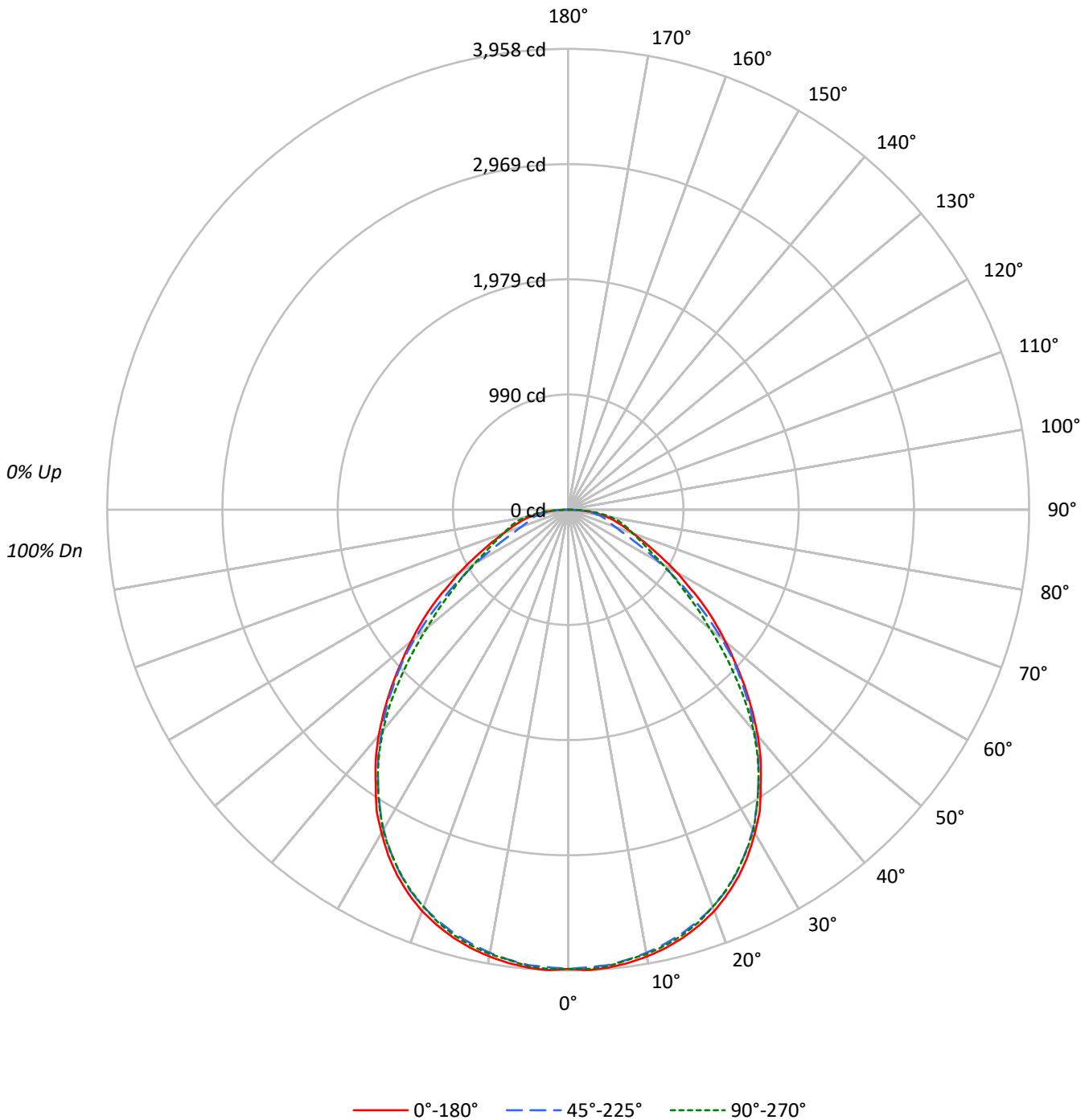
Input Watts (W): 65.472
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5306	5306	5306
5°	5332	5303	5316
10°	5323	5280	5295
15°	5302	5249	5272
20°	5252	5199	5197
25°	5150	5095	5091
30°	4980	4928	4939
35°	4730	4676	4683
40°	4448	4370	4344
45°	4076	4021	3862
50°	3685	3584	3314
55°	3308	3012	2857
60°	2897	2424	2513
65°	2527	1906	2313
70°	2312	1664	2312
75°	2313	1771	2548
80°	2511	2086	2905
85°	2756	2353	3117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	4.2
10°-20°	1065.8	12.0
20°-30°	1580.4	17.8
30°-40°	1782.9	20.1
40°-50°	1614.8	18.2
50°-60°	1165.0	13.1
60°-70°	695.6	7.8
70°-80°	429.9	4.8
80°-90°	181.1	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°	3019.7	34.0
0°-40°	4802.6	54.0
0°-60°	7582.4	85.3
0°-90°	8889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3944	3944	3944	3944	3944	
5°	3948	3943	3926	3922	3936	375
15°	3807	3783	3768	3770	3785	1073
25°	3469	3450	3432	3419	3429	1594
35°	2880	2876	2847	2848	2851	1802
45°	2142	2128	2113	2061	2030	1651
55°	1410	1366	1284	1221	1218	1259
65°	794	699	599	680	726	798
75°	445	386	341	424	490	475
85°	178	156	152	199	202	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3943.9	3943.9	3943.9	3943.9	3943.9
2.5°	3957.7	3946.7	3933.0	3941.2	3948.1
5°	3948.1	3942.6	3926.1	3922.0	3935.7
7.5°	3927.5	3913.7	3898.6	3905.5	3900.0
10°	3895.9	3883.5	3864.3	3865.7	3875.3
12.5°	3857.4	3842.3	3821.7	3827.2	3835.5
15°	3806.6	3783.3	3768.2	3769.5	3784.7
17.5°	3742.1	3724.2	3705.0	3709.1	3716.0
20°	3667.9	3658.3	3630.8	3622.6	3629.5
22.5°	3574.5	3556.7	3541.6	3537.5	3538.8
25°	3468.8	3449.6	3431.7	3419.4	3429.0
27.5°	3345.2	3328.7	3305.4	3301.3	3309.5
30°	3205.1	3192.8	3172.2	3166.7	3179.1
32.5°	3062.3	3041.7	3012.9	3012.9	3015.6
35°	2879.7	2875.6	2846.7	2848.1	2850.8
37.5°	2714.9	2695.7	2679.2	2662.7	2671.0
40°	2532.3	2510.3	2488.3	2477.3	2473.2
42.5°	2335.9	2319.4	2309.8	2270.0	2260.4
45°	2142.3	2128.5	2113.4	2061.2	2029.6
47.5°	1944.5	1941.8	1929.4	1837.4	1805.8
50°	1760.5	1756.4	1712.4	1614.9	1583.3
52.5°	1586.1	1558.6	1501.0	1404.8	1399.3
55°	1410.3	1366.4	1284.0	1220.8	1218.1
57.5°	1224.9	1172.7	1089.0	1054.6	1072.5
60°	1076.6	997.0	900.8	905.0	933.8
62.5°	922.8	833.6	738.8	780.0	814.3
65°	793.7	699.0	598.7	679.8	726.4
67.5°	681.1	593.2	497.1	605.6	650.9
70°	587.7	516.3	423.0	536.9	587.7
72.5°	513.6	447.7	374.9	482.0	541.1
75°	444.9	385.9	340.6	424.3	490.2
77.5°	385.9	328.2	307.6	374.9	439.4
80°	324.1	271.9	269.2	326.8	374.9
82.5°	252.7	217.0	217.0	273.3	302.1
85°	178.5	156.5	152.4	199.1	201.9
87.5°	92.0	87.9	79.6	104.4	104.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)