

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: P293191

Luminaire Tested: **24GR-LD5-64-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6047.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

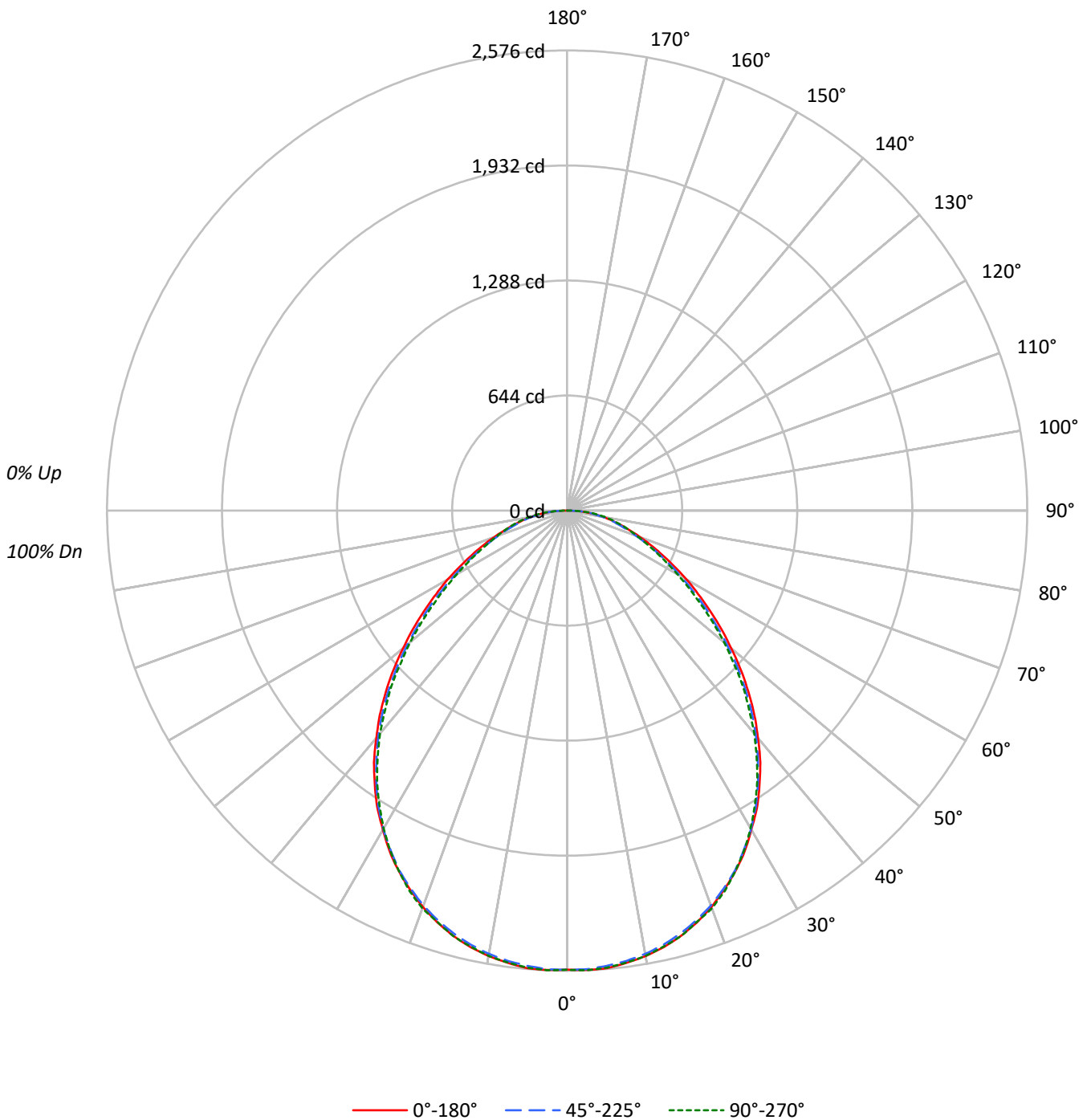
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3458	3458	3458
5°	3474	3455	3469
10°	3460	3443	3458
15°	3432	3414	3435
20°	3382	3369	3393
25°	3309	3300	3307
30°	3204	3198	3191
35°	3083	3060	3048
40°	2918	2885	2862
45°	2730	2680	2647
50°	2509	2442	2400
55°	2288	2204	2140
60°	2078	1966	1915
65°	1872	1766	1736
70°	1714	1603	1647
75°	1602	1528	1641
80°	1589	1560	1714
85°	1619	1635	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	4.0
10°-20°	691.5	11.4
20°-30°	1021.5	16.9
30°-40°	1161.4	19.2
40°-50°	1084.6	17.9
50°-60°	843.5	13.9
60°-70°	559.7	9.3
70°-80°	323.9	5.4
80°-90°	117.8	1.9
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°	1956.3	32.4
0°-40°	3117.7	51.6
0°-60°	5045.7	83.4
0°-90°	6047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2570	2570	2570	2570	2570	
5°	2572	2559	2558	2562	2568	244
15°	2464	2452	2451	2450	2466	694
25°	2229	2219	2223	2218	2228	1025
35°	1877	1868	1863	1850	1855	1172
45°	1435	1424	1408	1390	1391	1106
55°	975	961	940	915	912	875
65°	588	570	555	544	545	588
75°	308	301	294	307	316	330
85°	105	103	106	120	121	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2570.0	2570.0	2570.0	2570.0	2570.0
2.5°	2573.8	2566.2	2570.0	2567.1	2575.6
5°	2571.9	2558.6	2557.7	2562.4	2568.1
7.5°	2553.9	2539.7	2542.6	2542.6	2552.0
10°	2532.2	2518.0	2519.9	2520.8	2531.2
12.5°	2502.9	2488.7	2489.6	2488.7	2499.1
15°	2464.1	2451.8	2450.9	2449.9	2466.0
17.5°	2416.9	2399.8	2405.5	2406.5	2415.0
20°	2362.0	2348.8	2352.6	2351.6	2369.6
22.5°	2296.8	2287.4	2290.2	2288.3	2305.3
25°	2228.8	2219.3	2223.1	2218.4	2227.8
27.5°	2152.2	2145.6	2141.8	2139.0	2145.6
30°	2062.4	2058.6	2058.6	2046.3	2053.9
32.5°	1977.3	1965.1	1965.1	1960.3	1955.6
35°	1877.1	1867.7	1863.0	1849.7	1855.4
37.5°	1777.0	1755.2	1753.3	1742.9	1742.9
40°	1661.6	1649.4	1642.7	1631.4	1629.5
42.5°	1552.0	1539.7	1528.4	1509.5	1505.7
45°	1434.8	1423.5	1408.3	1390.4	1391.3
47.5°	1318.5	1302.5	1288.3	1266.6	1263.7
50°	1198.5	1187.2	1166.4	1147.5	1146.5
52.5°	1086.0	1068.1	1049.2	1026.5	1026.5
55°	975.4	961.3	939.5	914.9	912.1
57.5°	869.6	856.3	831.8	813.8	809.1
60°	772.2	753.3	730.6	715.5	711.7
62.5°	674.9	657.9	640.8	625.7	624.8
65°	587.9	570.0	554.8	544.4	545.4
67.5°	509.5	494.3	477.3	474.5	475.4
70°	435.7	419.7	407.4	414.0	418.7
72.5°	365.8	357.3	348.8	358.2	364.8
75°	308.1	300.6	294.0	307.2	315.7
77.5°	255.2	249.5	248.6	259.9	267.5
80°	205.1	198.5	201.3	214.6	221.2
82.5°	156.0	151.2	152.2	168.2	173.0
85°	104.9	103.0	105.9	120.0	121.0
87.5°	55.8	55.8	57.7	66.2	63.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)