

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: P293182

Luminaire Tested: **24GR-LD5-48-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293182
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-LD5-48-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4849.0 lumens
Efficiency: N/A
Efficacy: 147.7 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

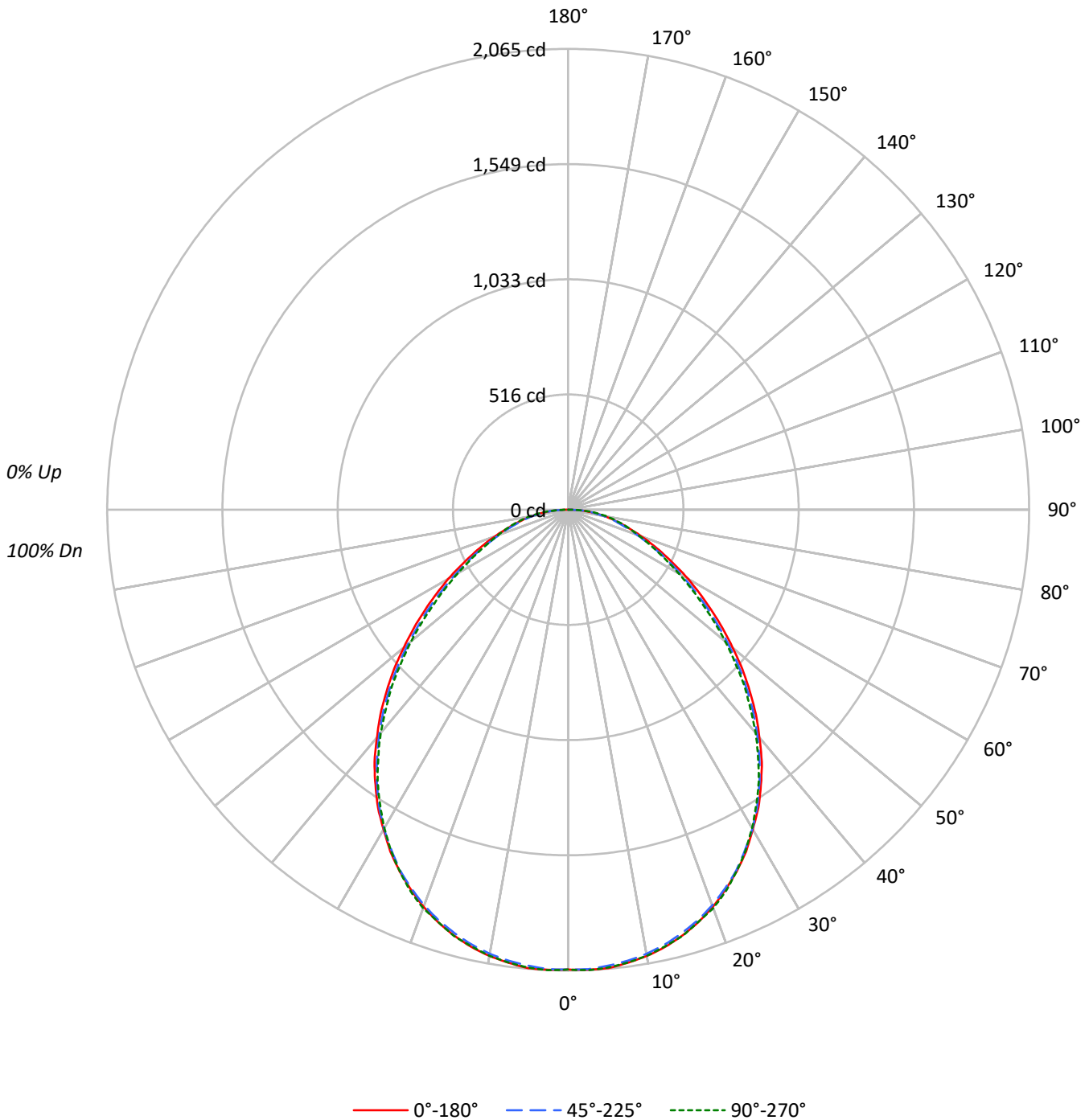
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2773	2773	2773
5°	2785	2770	2781
10°	2774	2761	2773
15°	2752	2738	2755
20°	2712	2701	2721
25°	2653	2647	2652
30°	2569	2565	2559
35°	2473	2454	2444
40°	2340	2314	2295
45°	2189	2149	2123
50°	2012	1958	1924
55°	1835	1767	1716
60°	1666	1577	1536
65°	1501	1416	1392
70°	1375	1285	1321
75°	1285	1225	1316
80°	1275	1251	1375
85°	1298	1311	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	4.0
10°-20°	554.5	11.4
20°-30°	819.2	16.9
30°-40°	931.3	19.2
40°-50°	869.7	17.9
50°-60°	676.4	13.9
60°-70°	448.8	9.3
70°-80°	259.7	5.4
80°-90°	94.4	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°	1568.7	32.4
0°-40°	2500.0	51.6
0°-60°	4046.1	83.4
0°-90°	4849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2062	2052	2051	2055	2059	196
15°	1976	1966	1965	1965	1978	557
25°	1787	1780	1783	1779	1786	822
35°	1505	1498	1494	1483	1488	940
45°	1150	1141	1129	1115	1116	886
55°	782	771	753	734	731	701
65°	471	457	445	437	437	471
75°	247	241	236	246	253	264
85°	84	83	85	96	97	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.8	2060.8	2060.8	2060.8	2060.8
2.5°	2063.9	2057.8	2060.8	2058.6	2065.4
5°	2062.3	2051.7	2051.0	2054.8	2059.3
7.5°	2047.9	2036.6	2038.8	2038.8	2046.4
10°	2030.5	2019.1	2020.7	2021.4	2029.7
12.5°	2007.0	1995.6	1996.4	1995.6	2004.0
15°	1975.9	1966.1	1965.3	1964.6	1977.5
17.5°	1938.0	1924.4	1928.9	1929.7	1936.5
20°	1894.1	1883.5	1886.5	1885.7	1900.1
22.5°	1841.8	1834.2	1836.5	1835.0	1848.6
25°	1787.2	1779.6	1782.7	1778.9	1786.5
27.5°	1725.8	1720.5	1717.5	1715.2	1720.5
30°	1653.8	1650.8	1650.8	1640.9	1647.0
32.5°	1585.6	1575.7	1575.7	1572.0	1568.2
35°	1505.3	1497.7	1493.9	1483.3	1487.8
37.5°	1424.9	1407.5	1406.0	1397.6	1397.6
40°	1332.4	1322.6	1317.3	1308.2	1306.7
42.5°	1244.5	1234.7	1225.6	1210.4	1207.4
45°	1150.5	1141.4	1129.3	1114.9	1115.7
47.5°	1057.3	1044.4	1033.1	1015.6	1013.4
50°	961.1	952.0	935.3	920.1	919.4
52.5°	870.9	856.5	841.3	823.1	823.1
55°	782.2	770.8	753.4	733.7	731.4
57.5°	697.3	686.7	667.0	652.6	648.8
60°	619.2	604.1	585.9	573.8	570.7
62.5°	541.2	527.5	513.9	501.8	501.0
65°	471.4	457.0	444.9	436.6	437.3
67.5°	408.5	396.4	382.8	380.5	381.2
70°	349.4	336.5	326.7	332.0	335.8
72.5°	293.3	286.5	279.7	287.3	292.6
75°	247.1	241.0	235.7	246.3	253.2
77.5°	204.6	200.1	199.3	208.4	214.5
80°	164.5	159.2	161.4	172.1	177.4
82.5°	125.1	121.3	122.0	134.9	138.7
85°	84.1	82.6	84.9	96.3	97.0
87.5°	44.7	44.7	46.2	53.1	50.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)