

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: P293380

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293380
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-LD5-56-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

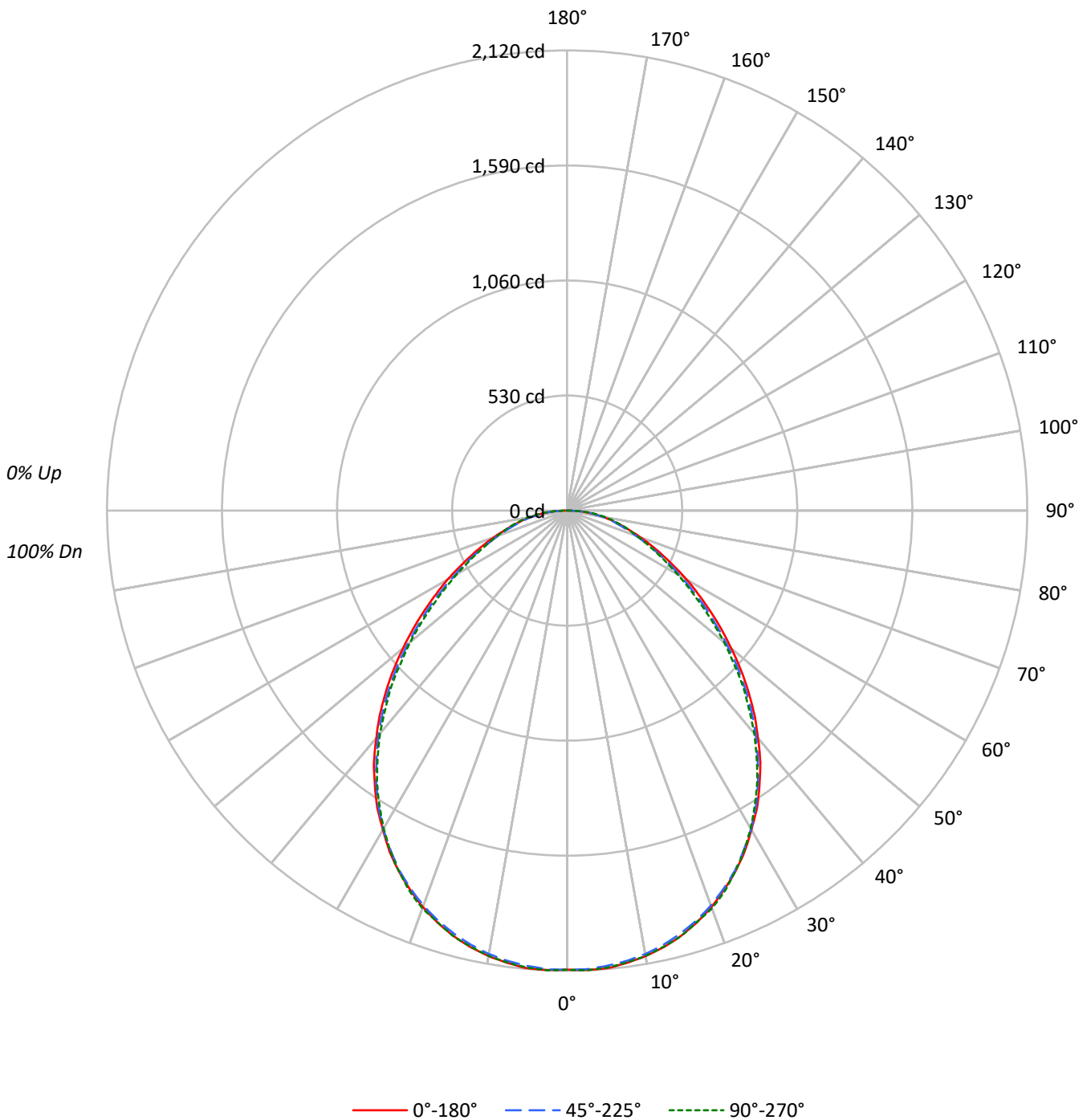
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2846	2846	2846
5°	2859	2843	2855
10°	2847	2834	2846
15°	2825	2810	2827
20°	2784	2772	2793
25°	2723	2716	2722
30°	2637	2632	2626
35°	2538	2519	2508
40°	2402	2375	2356
45°	2247	2206	2179
50°	2065	2009	1975
55°	1883	1814	1761
60°	1710	1618	1576
65°	1541	1454	1429
70°	1411	1319	1356
75°	1318	1258	1351
80°	1308	1284	1410
85°	1334	1345	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	4.0
10°-20°	569.1	11.4
20°-30°	840.8	16.9
30°-40°	955.9	19.2
40°-50°	892.7	17.9
50°-60°	694.2	13.9
60°-70°	460.6	9.3
70°-80°	266.6	5.4
80°-90°	96.9	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°	1610.1	32.4
0°-40°	2566.0	51.6
0°-60°	4152.9	83.4
0°-90°	4977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2117	2106	2105	2109	2114	201
15°	2028	2018	2017	2016	2030	571
25°	1834	1827	1830	1826	1834	843
35°	1545	1537	1533	1522	1527	965
45°	1181	1172	1159	1144	1145	910
55°	803	791	773	753	751	720
65°	484	469	457	448	449	484
75°	254	247	242	253	260	271
85°	86	85	87	99	100	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2115.2	2115.2	2115.2	2115.2	2115.2
2.5°	2118.3	2112.1	2115.2	2112.9	2119.9
5°	2116.8	2105.9	2105.1	2109.0	2113.7
7.5°	2102.0	2090.3	2092.7	2092.7	2100.4
10°	2084.1	2072.4	2074.0	2074.8	2083.3
12.5°	2060.0	2048.3	2049.1	2048.3	2056.9
15°	2028.1	2018.0	2017.2	2016.4	2029.7
17.5°	1989.2	1975.2	1979.9	1980.6	1987.6
20°	1944.1	1933.2	1936.3	1935.5	1950.3
22.5°	1890.4	1882.6	1885.0	1883.4	1897.4
25°	1834.4	1826.6	1829.7	1825.8	1833.6
27.5°	1771.4	1765.9	1762.8	1760.5	1765.9
30°	1697.5	1694.4	1694.4	1684.2	1690.5
32.5°	1627.5	1617.3	1617.3	1613.5	1609.6
35°	1545.0	1537.2	1533.3	1522.4	1527.1
37.5°	1462.5	1444.6	1443.1	1434.5	1434.5
40°	1367.6	1357.5	1352.1	1342.7	1341.2
42.5°	1277.4	1267.3	1257.9	1242.4	1239.3
45°	1180.9	1171.6	1159.1	1144.4	1145.1
47.5°	1085.2	1072.0	1060.3	1042.4	1040.1
50°	986.4	977.1	960.0	944.4	943.6
52.5°	893.9	879.1	863.5	844.8	844.8
55°	802.8	791.2	773.3	753.0	750.7
57.5°	715.7	704.8	684.6	669.8	665.9
60°	635.6	620.0	601.3	588.9	585.8
62.5°	555.5	541.4	527.4	515.0	514.2
65°	483.9	469.1	456.7	448.1	448.9
67.5°	419.3	406.9	392.9	390.5	391.3
70°	358.6	345.4	335.3	340.7	344.6
72.5°	301.1	294.1	287.1	294.8	300.3
75°	253.6	247.4	241.9	252.8	259.8
77.5°	210.0	205.4	204.6	213.9	220.2
80°	168.8	163.4	165.7	176.6	182.0
82.5°	128.4	124.5	125.2	138.5	142.4
85°	86.4	84.8	87.1	98.8	99.6
87.5°	45.9	45.9	47.5	54.5	52.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)