

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: P293249

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293249
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-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 149.7 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

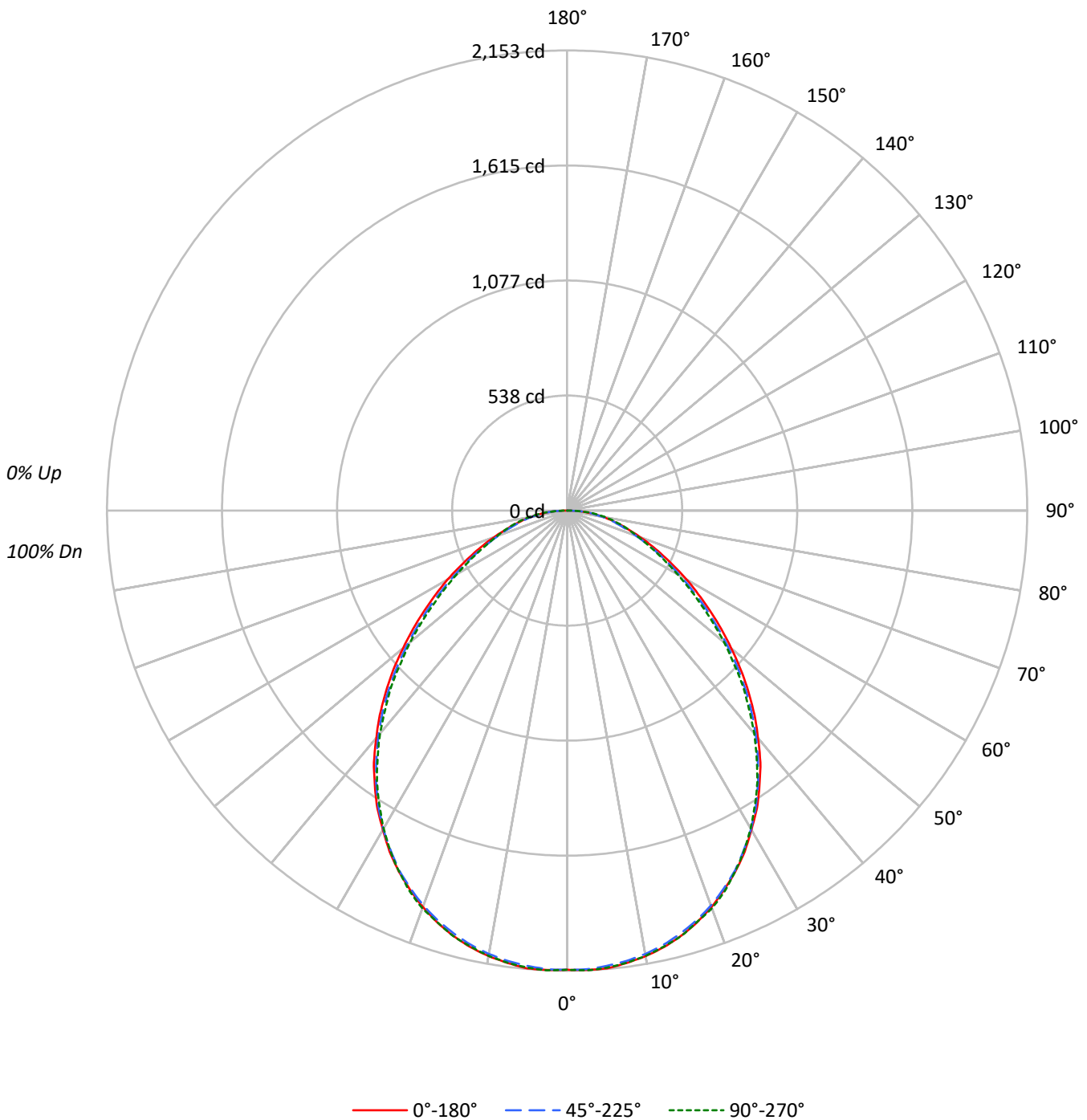
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	2891	2891	2891
5°	2904	2888	2900
10°	2892	2878	2891
15°	2869	2854	2872
20°	2827	2816	2836
25°	2766	2759	2765
30°	2679	2674	2668
35°	2577	2558	2548
40°	2440	2412	2393
45°	2282	2240	2213
50°	2097	2041	2006
55°	1913	1842	1789
60°	1737	1644	1601
65°	1565	1477	1451
70°	1433	1340	1377
75°	1339	1277	1372
80°	1329	1304	1433
85°	1354	1366	1561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	4.0
10°-20°	578.1	11.4
20°-30°	854.0	16.9
30°-40°	970.9	19.2
40°-50°	906.7	17.9
50°-60°	705.1	13.9
60°-70°	467.8	9.3
70°-80°	270.8	5.4
80°-90°	98.4	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°	1635.3	32.4
0°-40°	2606.2	51.6
0°-60°	4218.0	83.4
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2150	2139	2138	2142	2147	204
15°	2060	2050	2049	2048	2062	580
25°	1863	1855	1858	1854	1862	857
35°	1569	1561	1557	1546	1551	980
45°	1199	1190	1177	1162	1163	924
55°	815	804	785	765	762	731
65°	492	476	464	455	456	491
75°	258	251	246	257	264	276
85°	88	86	88	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2151.5	2145.2	2148.4	2146.0	2153.1
5°	2150.0	2138.9	2138.1	2142.1	2146.8
7.5°	2134.9	2123.1	2125.5	2125.5	2133.4
10°	2116.8	2104.9	2106.5	2107.3	2116.0
12.5°	2092.3	2080.4	2081.2	2080.4	2089.1
15°	2059.9	2049.6	2048.8	2048.0	2061.5
17.5°	2020.4	2006.2	2010.9	2011.7	2018.8
20°	1974.5	1963.5	1966.6	1965.9	1980.9
22.5°	1920.0	1912.1	1914.5	1912.9	1927.1
25°	1863.1	1855.2	1858.4	1854.4	1862.3
27.5°	1799.1	1793.6	1790.4	1788.1	1793.6
30°	1724.1	1720.9	1720.9	1710.6	1717.0
32.5°	1653.0	1642.7	1642.7	1638.7	1634.8
35°	1569.2	1561.3	1557.4	1546.3	1551.0
37.5°	1485.5	1467.3	1465.7	1457.0	1457.0
40°	1389.1	1378.8	1373.3	1363.8	1362.2
42.5°	1297.4	1287.1	1277.6	1261.8	1258.7
45°	1199.4	1189.9	1177.3	1162.3	1163.1
47.5°	1102.2	1088.8	1077.0	1058.8	1056.4
50°	1001.9	992.4	975.0	959.2	958.4
52.5°	907.9	892.9	877.0	858.1	858.1
55°	815.4	803.6	785.4	764.8	762.5
57.5°	726.9	715.9	695.3	680.3	676.4
60°	645.5	629.7	610.8	598.1	595.0
62.5°	564.2	549.9	535.7	523.1	522.3
65°	491.5	476.5	463.8	455.1	455.9
67.5°	425.9	413.2	399.0	396.6	397.4
70°	364.3	350.8	340.5	346.1	350.0
72.5°	305.8	298.7	291.6	299.5	305.0
75°	257.6	251.3	245.7	256.8	263.9
77.5°	213.3	208.6	207.8	217.3	223.6
80°	171.5	165.9	168.3	179.4	184.9
82.5°	130.4	126.4	127.2	140.6	144.6
85°	87.7	86.1	88.5	100.3	101.1
87.5°	46.6	46.6	48.2	55.3	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)