

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: P293511

Luminaire Tested: **24GR-LD5-56-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293511
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-LD5-56-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959.0 lumens
Efficiency: N/A
Efficacy: 146.3 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

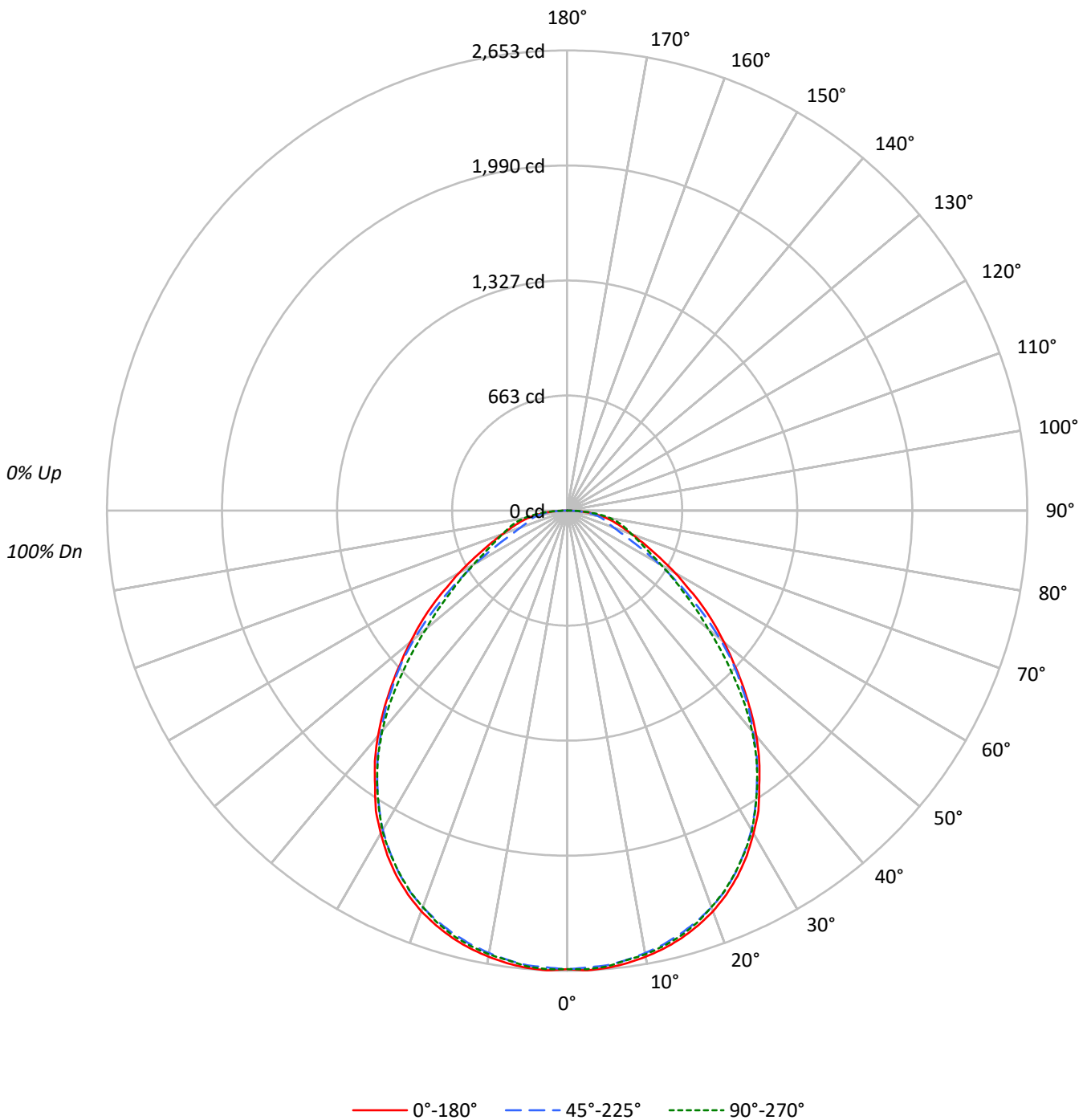
Input Watts (W): 40.734
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3557	3557	3557
5°	3575	3555	3563
10°	3568	3539	3549
15°	3555	3519	3534
20°	3521	3485	3484
25°	3452	3415	3413
30°	3338	3304	3311
35°	3171	3135	3139
40°	2982	2930	2912
45°	2733	2696	2589
50°	2470	2403	2222
55°	2218	2019	1916
60°	1942	1625	1685
65°	1694	1278	1550
70°	1550	1115	1550
75°	1551	1187	1709
80°	1684	1398	1947
85°	1848	1578	2089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	4.2
10°-20°	714.5	12.0
20°-30°	1059.5	17.8
30°-40°	1195.2	20.1
40°-50°	1082.5	18.2
50°-60°	781.0	13.1
60°-70°	466.3	7.8
70°-80°	288.2	4.8
80°-90°	121.4	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°	2024.4	34.0
0°-40°	3219.6	54.0
0°-60°	5083.1	85.3
0°-90°	5959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2647	2643	2632	2629	2638	251
15°	2552	2536	2526	2527	2537	719
25°	2325	2312	2301	2292	2299	1068
35°	1930	1928	1908	1909	1911	1208
45°	1436	1427	1417	1382	1361	1107
55°	945	916	861	818	817	844
65°	532	469	401	456	487	535
75°	298	259	228	284	329	319
85°	120	105	102	134	135	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2643.9	2643.9	2643.9	2643.9	2643.9
2.5°	2653.1	2645.8	2636.6	2642.1	2646.7
5°	2646.7	2643.0	2632.0	2629.2	2638.4
7.5°	2632.9	2623.7	2613.6	2618.2	2614.5
10°	2611.7	2603.4	2590.5	2591.5	2597.9
12.5°	2585.9	2575.8	2562.0	2565.7	2571.2
15°	2551.9	2536.2	2526.1	2527.0	2537.2
17.5°	2508.6	2496.6	2483.8	2486.5	2491.1
20°	2458.9	2452.5	2434.0	2428.5	2433.1
22.5°	2396.3	2384.3	2374.2	2371.4	2372.4
25°	2325.4	2312.5	2300.6	2292.3	2298.7
27.5°	2242.6	2231.5	2215.9	2213.1	2218.6
30°	2148.7	2140.4	2126.6	2122.9	2131.2
32.5°	2052.9	2039.1	2019.8	2019.8	2021.6
35°	1930.5	1927.7	1908.4	1909.3	1911.1
37.5°	1820.0	1807.1	1796.1	1785.0	1790.6
40°	1697.6	1682.8	1668.1	1660.7	1658.0
42.5°	1565.9	1554.9	1548.4	1521.7	1515.3
45°	1436.1	1426.9	1416.8	1381.8	1360.6
47.5°	1303.6	1301.7	1293.4	1231.8	1210.6
50°	1180.2	1177.4	1148.0	1082.6	1061.4
52.5°	1063.3	1044.9	1006.2	941.8	938.1
55°	945.4	916.0	860.8	818.4	816.6
57.5°	821.2	786.2	730.0	707.0	719.0
60°	721.7	668.3	603.9	606.7	626.0
62.5°	618.6	558.8	495.3	522.9	545.9
65°	532.1	468.6	401.4	455.7	487.0
67.5°	456.6	397.7	333.3	406.0	436.4
70°	394.0	346.1	283.5	360.0	394.0
72.5°	344.3	300.1	251.3	323.1	362.7
75°	298.3	258.7	228.3	284.5	328.7
77.5°	258.7	220.0	206.2	251.3	294.6
80°	217.3	182.3	180.4	219.1	251.3
82.5°	169.4	145.5	145.5	183.2	202.5
85°	119.7	104.9	102.2	133.5	135.3
87.5°	61.7	58.9	53.4	70.0	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)