

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: P293505

Luminaire Tested: **24GR-LD5-56-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293505
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5568.0 lumens
Efficiency: N/A
Efficacy: 142.2 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

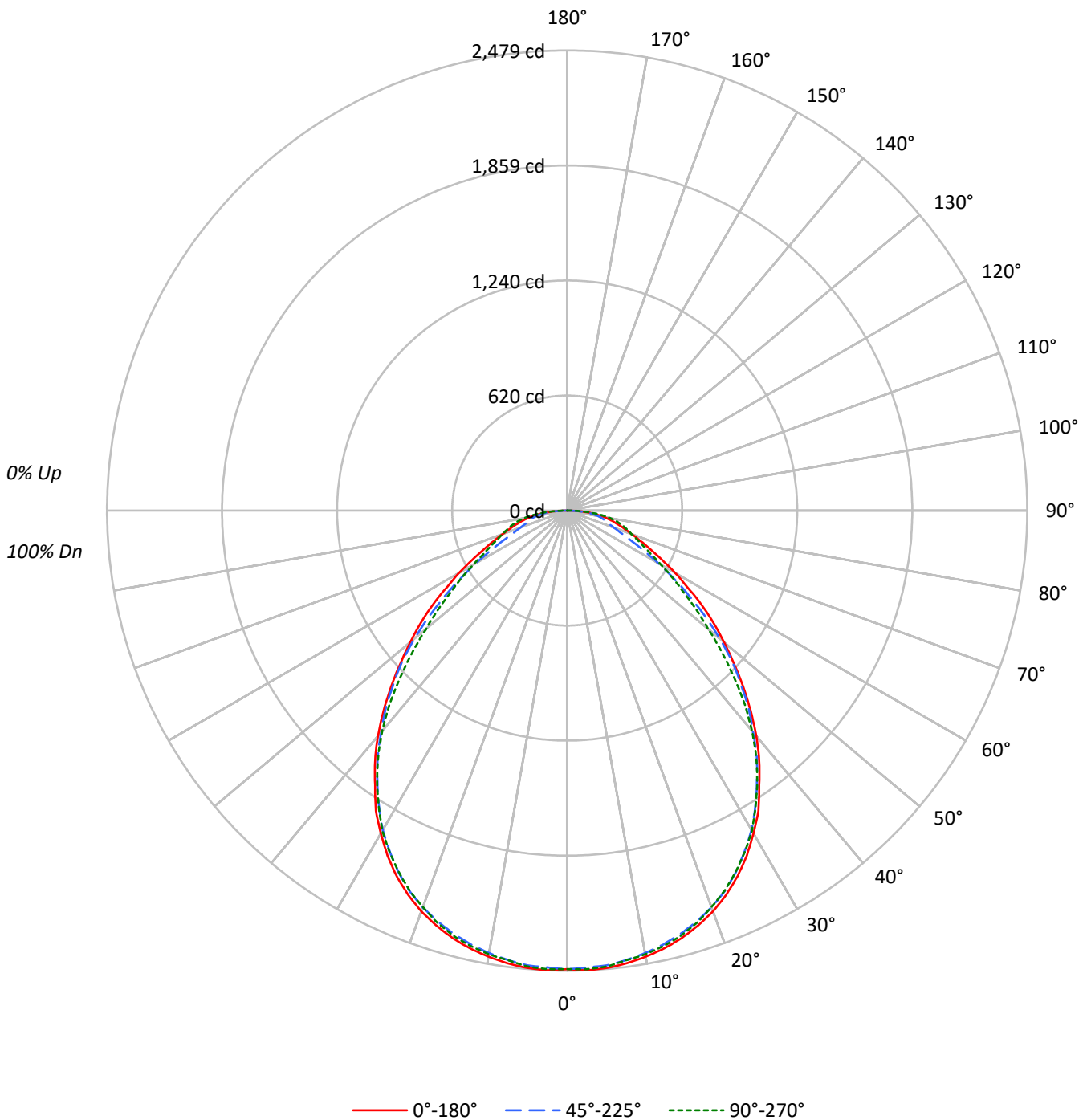
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3324	3324	3324
5°	3340	3322	3330
10°	3334	3307	3316
15°	3321	3288	3302
20°	3290	3256	3255
25°	3226	3191	3189
30°	3119	3087	3094
35°	2963	2929	2933
40°	2786	2738	2721
45°	2553	2519	2419
50°	2308	2245	2076
55°	2072	1887	1790
60°	1815	1519	1574
65°	1583	1194	1449
70°	1448	1042	1448
75°	1449	1109	1596
80°	1573	1306	1819
85°	1726	1474	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	4.2
10°-20°	667.6	12.0
20°-30°	990.0	17.8
30°-40°	1116.8	20.1
40°-50°	1011.5	18.2
50°-60°	729.7	13.1
60°-70°	435.7	7.8
70°-80°	269.3	4.8
80°-90°	113.5	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°	1891.5	34.0
0°-40°	3008.3	54.0
0°-60°	4749.6	85.3
0°-90°	5568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2473	2470	2459	2457	2465	235
15°	2384	2370	2360	2361	2371	672
25°	2173	2161	2150	2142	2148	998
35°	1804	1801	1783	1784	1786	1129
45°	1342	1333	1324	1291	1271	1034
55°	883	856	804	765	763	789
65°	497	438	375	426	455	500
75°	279	242	213	266	307	298
85°	112	98	96	125	126	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470.5	2470.5	2470.5	2470.5	2470.5
2.5°	2479.1	2472.2	2463.6	2468.7	2473.0
5°	2473.0	2469.6	2459.3	2456.7	2465.3
7.5°	2460.1	2451.5	2442.1	2446.4	2442.9
10°	2440.4	2432.6	2420.6	2421.4	2427.4
12.5°	2416.3	2406.8	2393.9	2397.3	2402.5
15°	2384.4	2369.8	2360.4	2361.2	2370.7
17.5°	2344.0	2332.8	2320.8	2323.4	2327.7
20°	2297.6	2291.5	2274.3	2269.2	2273.5
22.5°	2239.1	2227.9	2218.4	2215.8	2216.7
25°	2172.8	2160.8	2149.6	2141.9	2147.9
27.5°	2095.4	2085.1	2070.5	2067.9	2073.1
30°	2007.7	1999.9	1987.0	1983.6	1991.3
32.5°	1918.2	1905.3	1887.3	1887.3	1889.0
35°	1803.8	1801.2	1783.2	1784.0	1785.7
37.5°	1700.6	1688.5	1678.2	1667.9	1673.1
40°	1586.2	1572.4	1558.7	1551.8	1549.2
42.5°	1463.2	1452.9	1446.8	1421.9	1415.9
45°	1341.9	1333.3	1323.8	1291.1	1271.4
47.5°	1218.0	1216.3	1208.6	1150.9	1131.1
50°	1102.8	1100.2	1072.7	1011.6	991.8
52.5°	993.5	976.3	940.2	880.0	876.5
55°	883.4	855.9	804.3	764.7	763.0
57.5°	767.3	734.6	682.1	660.6	671.8
60°	674.4	624.5	564.3	566.9	584.9
62.5°	578.0	522.1	462.8	488.6	510.1
65°	497.2	437.8	375.0	425.8	455.0
67.5°	426.7	371.6	311.4	379.3	407.7
70°	368.2	323.4	264.9	336.3	368.2
72.5°	321.7	280.4	234.8	301.9	338.9
75°	278.7	241.7	213.3	265.8	307.1
77.5°	241.7	205.6	192.7	234.8	275.3
80°	203.0	170.3	168.6	204.7	234.8
82.5°	158.3	135.9	135.9	171.2	189.2
85°	111.8	98.1	95.5	124.7	126.4
87.5°	57.6	55.1	49.9	65.4	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)