

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: P293633

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293633
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-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

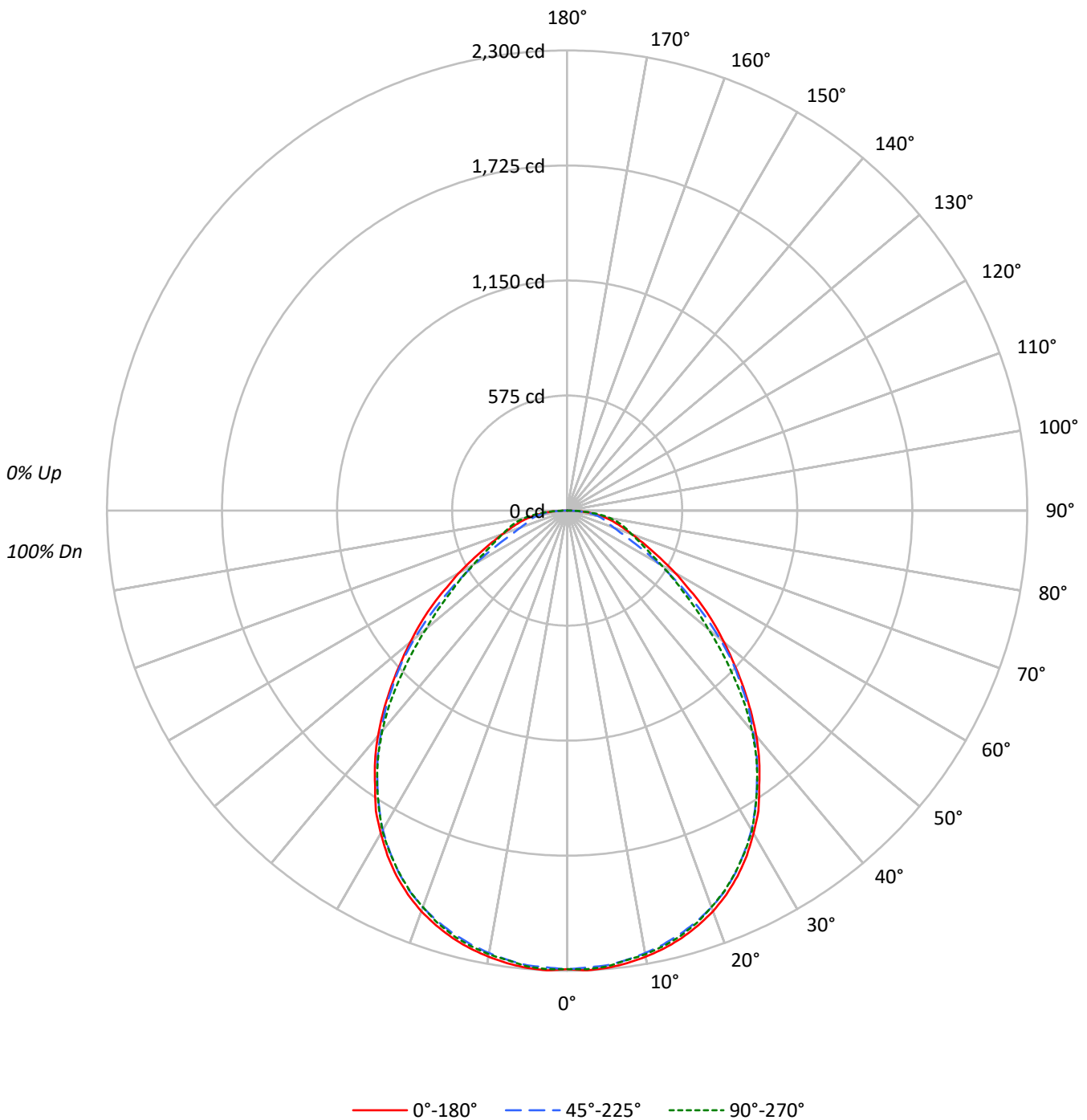
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3084	3084	3084
5°	3099	3082	3089
10°	3093	3068	3077
15°	3082	3050	3064
20°	3052	3021	3020
25°	2993	2961	2958
30°	2894	2864	2871
35°	2749	2717	2721
40°	2585	2540	2524
45°	2369	2337	2245
50°	2142	2083	1926
55°	1923	1750	1661
60°	1684	1409	1460
65°	1469	1108	1344
70°	1344	967	1344
75°	1344	1029	1481
80°	1459	1212	1688
85°	1602	1368	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	4.2
10°-20°	619.4	12.0
20°-30°	918.5	17.8
30°-40°	1036.2	20.1
40°-50°	938.4	18.2
50°-60°	677.0	13.1
60°-70°	404.3	7.8
70°-80°	249.9	4.8
80°-90°	105.3	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°	1755.0	34.0
0°-40°	2791.1	54.0
0°-60°	4406.6	85.3
0°-90°	5166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2292	2292	2292	2292	2292	
5°	2294	2291	2282	2279	2287	218
15°	2212	2199	2190	2191	2200	624
25°	2016	2005	1994	1987	1993	926
35°	1674	1671	1654	1655	1657	1047
45°	1245	1237	1228	1198	1180	959
55°	820	794	746	710	708	732
65°	461	406	348	395	422	464
75°	259	224	198	247	285	276
85°	104	91	89	116	117	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2292.1	2292.1	2292.1	2292.1	2292.1
2.5°	2300.1	2293.7	2285.7	2290.5	2294.5
5°	2294.5	2291.3	2281.7	2279.3	2287.3
7.5°	2282.5	2274.5	2265.8	2269.7	2266.6
10°	2264.2	2257.0	2245.8	2246.6	2252.2
12.5°	2241.8	2233.0	2221.1	2224.3	2229.0
15°	2212.3	2198.7	2189.9	2190.7	2199.5
17.5°	2174.8	2164.4	2153.2	2155.6	2159.6
20°	2131.7	2126.1	2110.1	2105.3	2109.3
22.5°	2077.4	2067.0	2058.3	2055.9	2056.7
25°	2016.0	2004.8	1994.4	1987.2	1992.8
27.5°	1944.1	1934.6	1921.0	1918.6	1923.4
30°	1862.7	1855.5	1843.6	1840.4	1847.6
32.5°	1779.7	1767.8	1751.0	1751.0	1752.6
35°	1673.6	1671.2	1654.4	1655.2	1656.8
37.5°	1577.8	1566.6	1557.1	1547.5	1552.3
40°	1471.7	1458.9	1446.1	1439.7	1437.3
42.5°	1357.5	1348.0	1342.4	1319.2	1313.6
45°	1245.0	1237.0	1228.2	1197.9	1179.6
47.5°	1130.1	1128.5	1121.3	1067.8	1049.5
50°	1023.1	1020.7	995.2	938.5	920.2
52.5°	921.8	905.8	872.3	816.4	813.2
55°	819.6	794.1	746.2	709.5	707.9
57.5°	711.9	681.6	632.9	612.9	623.3
60°	625.7	579.4	523.5	525.9	542.7
62.5°	536.3	484.4	429.4	453.3	473.3
65°	461.3	406.2	348.0	395.1	422.2
67.5°	395.8	344.8	288.9	352.0	378.3
70°	341.6	300.1	245.8	312.1	341.6
72.5°	298.5	260.2	217.9	280.1	314.4
75°	258.6	224.3	197.9	246.6	284.9
77.5°	224.3	190.7	178.8	217.9	255.4
80°	188.3	158.0	156.4	189.9	217.9
82.5°	146.8	126.1	126.1	158.8	175.6
85°	103.8	91.0	88.6	115.7	117.3
87.5°	53.5	51.1	46.3	60.7	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)