

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: P293566

Luminaire Tested: **24GR-LD5-56-A-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293566
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-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

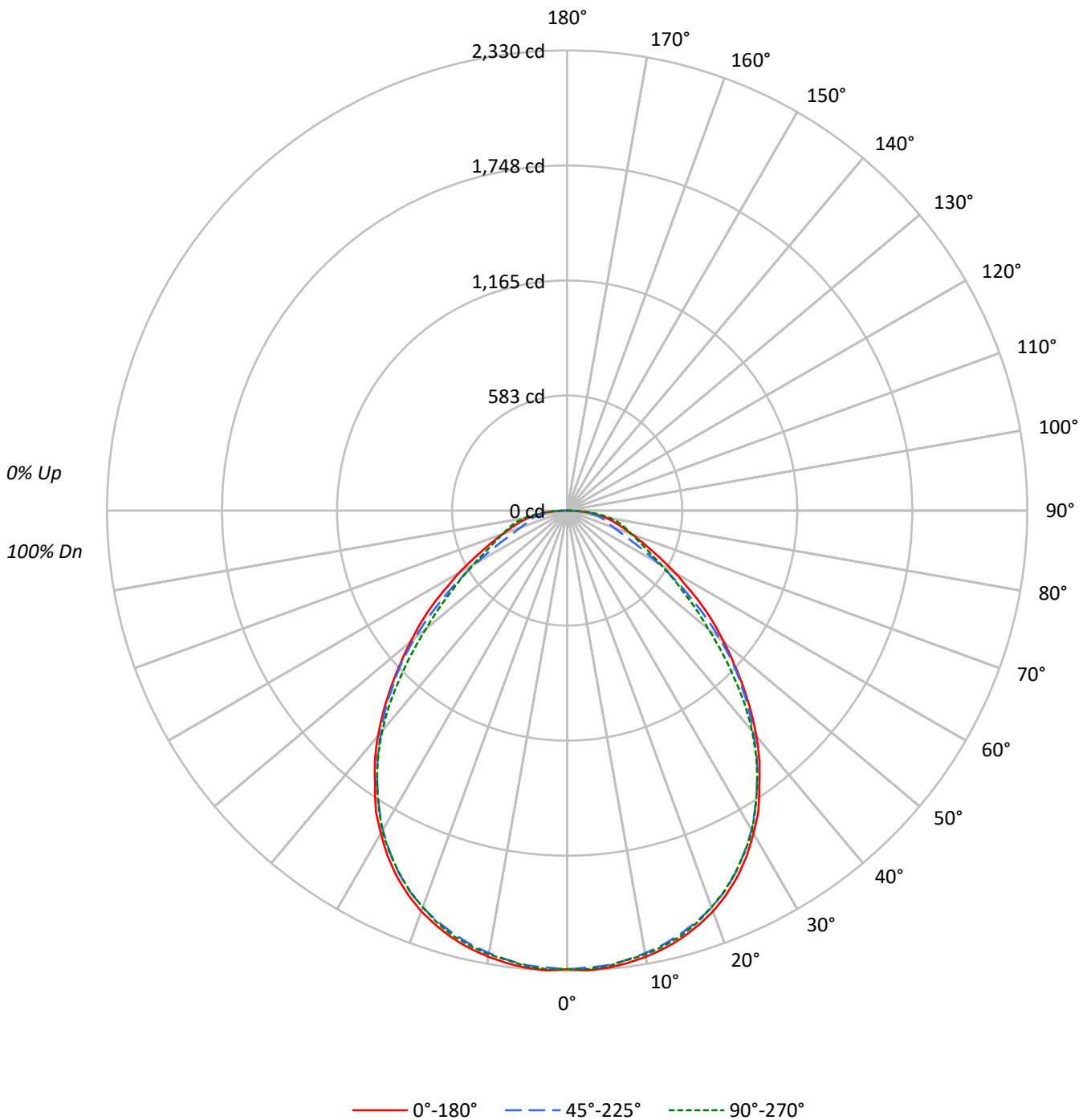
Input Watts (W): 39.980142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3125	3125	3125
5°	3140	3122	3130
10°	3134	3109	3117
15°	3122	3091	3104
20°	3092	3061	3060
25°	3032	3000	2997
30°	2932	2902	2908
35°	2785	2753	2757
40°	2619	2573	2558
45°	2400	2368	2274
50°	2170	2111	1951
55°	1948	1773	1682
60°	1706	1427	1480
65°	1488	1122	1362
70°	1362	980	1362
75°	1362	1042	1501
80°	1478	1228	1710
85°	1623	1386	1836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	4.2
10°-20°	627.6	12.0
20°-30°	930.6	17.8
30°-40°	1049.8	20.1
40°-50°	950.8	18.2
50°-60°	685.9	13.1
60°-70°	409.6	7.8
70°-80°	253.1	4.8
80°-90°	106.7	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°	1778.1	34.0
0°-40°	2827.9	54.0
0°-60°	4464.6	85.3
0°-90°	5234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2325	2322	2312	2309	2317	221
15°	2241	2228	2219	2220	2228	632
25°	2042	2031	2021	2013	2019	938
35°	1696	1693	1676	1677	1679	1061
45°	1261	1253	1244	1214	1195	972
55°	830	804	756	719	717	741
65°	467	412	352	400	428	470
75°	262	227	200	250	289	280
85°	105	92	90	117	119	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.3	2322.3	2322.3	2322.3	2322.3
2.5°	2330.4	2323.9	2315.8	2320.6	2324.7
5°	2324.7	2321.5	2311.8	2309.3	2317.4
7.5°	2312.6	2304.5	2295.6	2299.6	2296.4
10°	2294.0	2286.7	2275.4	2276.2	2281.8
12.5°	2271.3	2262.4	2250.3	2253.5	2258.4
15°	2241.4	2227.7	2218.8	2219.6	2228.5
17.5°	2203.4	2192.9	2181.6	2184.0	2188.0
20°	2159.7	2154.1	2137.9	2133.1	2137.1
22.5°	2104.8	2094.2	2085.3	2082.9	2083.7
25°	2042.5	2031.2	2020.7	2013.4	2019.0
27.5°	1969.7	1960.0	1946.3	1943.8	1948.7
30°	1887.2	1880.0	1867.8	1864.6	1871.9
32.5°	1803.2	1791.0	1774.0	1774.0	1775.7
35°	1695.6	1693.2	1676.2	1677.0	1678.6
37.5°	1598.6	1587.3	1577.6	1567.9	1572.7
40°	1491.0	1478.1	1465.2	1458.7	1456.3
42.5°	1375.4	1365.7	1360.0	1336.6	1330.9
45°	1261.4	1253.3	1244.4	1213.7	1195.1
47.5°	1145.0	1143.3	1136.1	1081.9	1063.3
50°	1036.6	1034.2	1008.3	950.9	932.3
52.5°	933.9	917.7	883.8	827.2	824.0
55°	830.4	804.5	756.0	718.8	717.2
57.5°	721.3	690.5	641.2	621.0	631.5
60°	633.9	587.0	530.4	532.9	549.8
62.5°	543.4	490.8	435.0	459.3	479.5
65°	467.4	411.6	352.5	400.3	427.7
67.5°	401.1	349.3	292.7	356.6	383.3
70°	346.1	304.0	249.0	316.2	346.1
72.5°	302.4	263.6	220.7	283.8	318.6
75°	262.0	227.2	200.5	249.9	288.7
77.5°	227.2	193.3	181.1	220.7	258.7
80°	190.8	160.1	158.5	192.4	220.7
82.5°	148.8	127.8	127.8	160.9	177.9
85°	105.1	92.2	89.8	117.2	118.9
87.5°	54.2	51.7	46.9	61.5	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)