

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: P293637

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293637
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5411.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

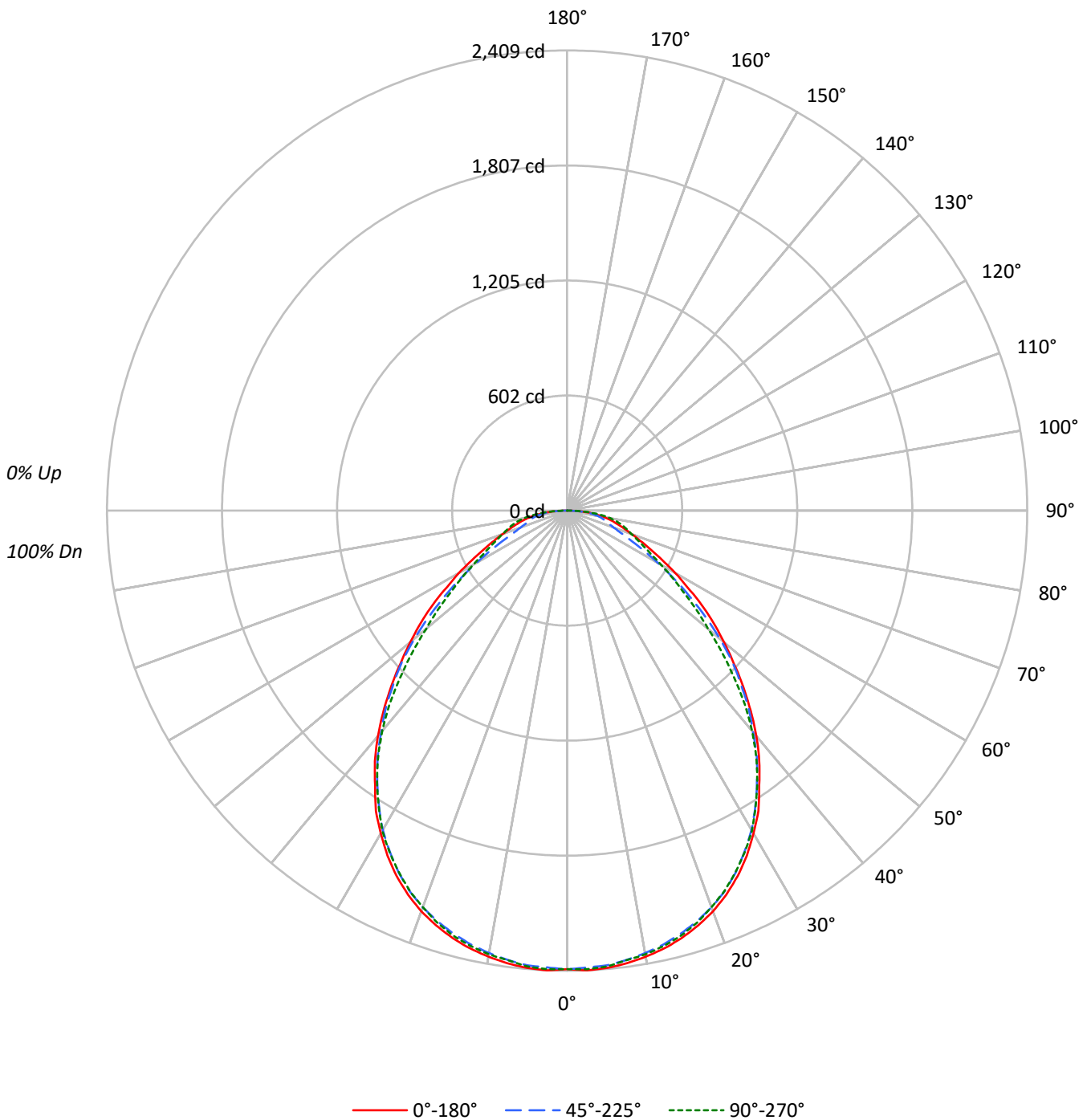
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3230	3230	3230
5°	3246	3228	3236
10°	3240	3214	3223
15°	3228	3195	3209
20°	3197	3165	3164
25°	3135	3101	3099
30°	3031	3000	3007
35°	2879	2846	2850
40°	2708	2660	2644
45°	2481	2448	2351
50°	2243	2182	2017
55°	2014	1833	1739
60°	1764	1476	1530
65°	1538	1160	1408
70°	1408	1013	1408
75°	1408	1078	1551
80°	1529	1269	1768
85°	1678	1433	1897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	4.2
10°-20°	648.8	12.0
20°-30°	962.1	17.8
30°-40°	1085.3	20.1
40°-50°	983.0	18.2
50°-60°	709.2	13.1
60°-70°	423.4	7.8
70°-80°	261.7	4.8
80°-90°	110.3	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°	1838.2	34.0
0°-40°	2923.5	54.0
0°-60°	4615.6	85.3
0°-90°	5411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2403	2400	2390	2387	2396	228
15°	2317	2303	2294	2295	2304	653
25°	2112	2100	2089	2082	2087	970
35°	1753	1750	1733	1734	1735	1097
45°	1304	1296	1286	1255	1236	1005
55°	858	832	782	743	742	766
65°	483	426	364	414	442	486
75°	271	235	207	258	298	289
85°	109	95	93	121	123	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2400.8	2400.8	2400.8	2400.8	2400.8
2.5°	2409.2	2402.5	2394.1	2399.1	2403.3
5°	2403.3	2400.0	2389.9	2387.4	2395.8
7.5°	2390.8	2382.4	2373.2	2377.4	2374.0
10°	2371.5	2364.0	2352.3	2353.1	2359.0
12.5°	2348.1	2338.9	2326.4	2329.7	2334.8
15°	2317.2	2303.0	2293.8	2294.6	2303.8
17.5°	2277.9	2267.0	2255.3	2257.9	2262.0
20°	2232.8	2226.9	2210.2	2205.2	2209.4
22.5°	2175.9	2165.1	2155.9	2153.4	2154.2
25°	2111.6	2099.9	2089.0	2081.5	2087.3
27.5°	2036.3	2026.3	2012.1	2009.6	2014.6
30°	1951.1	1943.5	1931.0	1927.7	1935.2
32.5°	1864.1	1851.6	1834.0	1834.0	1835.7
35°	1753.0	1750.4	1732.9	1733.7	1735.4
37.5°	1652.6	1640.9	1630.9	1620.9	1625.9
40°	1541.5	1528.1	1514.7	1508.0	1505.5
42.5°	1421.9	1411.9	1406.0	1381.8	1375.9
45°	1304.1	1295.7	1286.5	1254.7	1235.5
47.5°	1183.7	1182.0	1174.5	1118.5	1099.3
50°	1071.7	1069.2	1042.4	983.1	963.8
52.5°	965.5	948.8	913.7	855.2	851.8
55°	858.5	831.8	781.6	743.1	741.5
57.5°	745.7	713.9	662.9	642.0	652.9
60°	655.4	606.9	548.4	550.9	568.4
62.5°	561.7	507.4	449.7	474.8	495.7
65°	483.2	425.5	364.5	413.8	442.2
67.5°	414.6	361.1	302.6	368.6	396.2
70°	357.8	314.3	257.5	326.8	357.8
72.5°	312.6	272.5	228.2	293.4	329.4
75°	270.8	234.9	207.3	258.3	298.4
77.5°	234.9	199.8	187.2	228.2	267.5
80°	197.3	165.5	163.8	199.0	228.2
82.5°	153.8	132.1	132.1	166.4	183.9
85°	108.7	95.3	92.8	121.2	122.9
87.5°	56.0	53.5	48.5	63.5	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)