

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: P293636

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293636
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5375.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

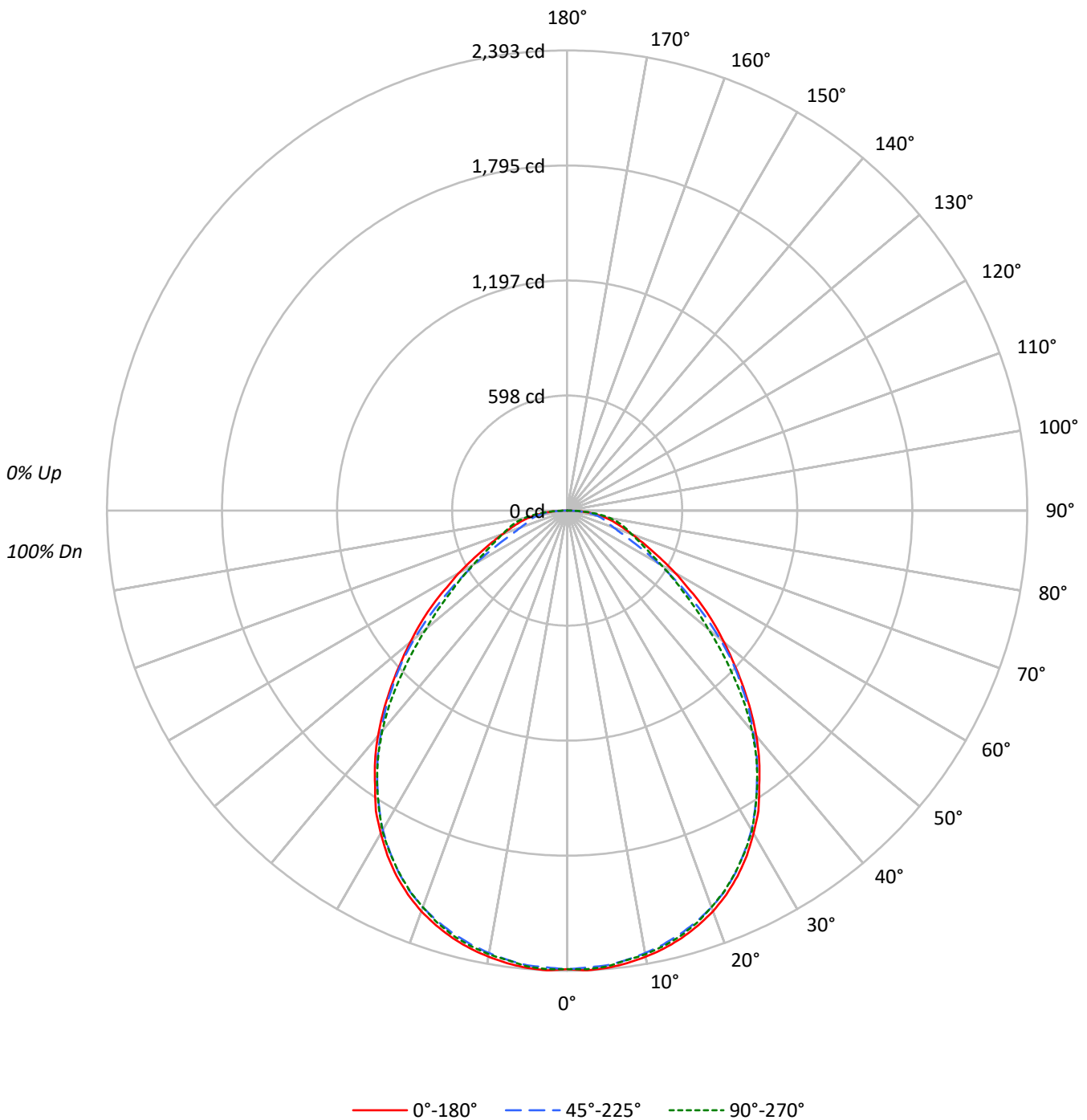
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3209	3209	3209
5°	3224	3206	3214
10°	3219	3193	3202
15°	3206	3174	3188
20°	3176	3144	3142
25°	3114	3081	3078
30°	3011	2980	2987
35°	2860	2827	2831
40°	2689	2643	2627
45°	2465	2432	2335
50°	2228	2168	2004
55°	2000	1821	1728
60°	1752	1466	1520
65°	1528	1152	1399
70°	1398	1006	1398
75°	1398	1070	1541
80°	1519	1261	1757
85°	1666	1423	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	4.2
10°-20°	644.5	12.0
20°-30°	955.6	17.8
30°-40°	1078.1	20.1
40°-50°	976.4	18.2
50°-60°	704.4	13.1
60°-70°	420.6	7.8
70°-80°	260.0	4.8
80°-90°	109.5	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°	1826.0	34.0
0°-40°	2904.1	54.0
0°-60°	4584.9	85.3
0°-90°	5375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2387	2384	2374	2372	2380	227
15°	2302	2288	2278	2279	2288	649
25°	2098	2086	2075	2068	2073	964
35°	1741	1739	1721	1722	1724	1089
45°	1295	1287	1278	1246	1227	998
55°	853	826	776	738	736	761
65°	480	423	362	411	439	483
75°	269	233	206	257	296	287
85°	108	95	92	120	122	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2384.8	2384.8	2384.8	2384.8	2384.8
2.5°	2393.1	2386.5	2378.2	2383.2	2387.3
5°	2387.3	2384.0	2374.0	2371.5	2379.8
7.5°	2374.9	2366.6	2357.4	2361.6	2358.3
10°	2355.8	2348.3	2336.7	2337.5	2343.3
12.5°	2332.5	2323.4	2310.9	2314.2	2319.2
15°	2301.8	2287.7	2278.5	2279.4	2288.5
17.5°	2262.8	2252.0	2240.3	2242.8	2247.0
20°	2217.9	2212.1	2195.5	2190.5	2194.7
22.5°	2161.5	2150.7	2141.5	2139.0	2139.9
25°	2097.5	2085.9	2075.1	2067.6	2073.4
27.5°	2022.8	2012.8	1998.7	1996.2	2001.2
30°	1938.1	1930.6	1918.2	1914.8	1922.3
32.5°	1851.7	1839.3	1821.8	1821.8	1823.5
35°	1741.3	1738.8	1721.4	1722.2	1723.8
37.5°	1641.6	1630.0	1620.1	1610.1	1615.1
40°	1531.2	1517.9	1504.6	1498.0	1495.5
42.5°	1412.5	1402.5	1396.7	1372.6	1366.8
45°	1295.4	1287.1	1277.9	1246.4	1227.3
47.5°	1175.8	1174.1	1166.7	1111.0	1091.9
50°	1064.5	1062.0	1035.5	976.5	957.4
52.5°	959.1	942.5	907.6	849.5	846.1
55°	852.8	826.2	776.4	738.2	736.5
57.5°	740.7	709.1	658.5	637.7	648.5
60°	651.0	602.8	544.7	547.2	564.7
62.5°	558.0	504.0	446.7	471.7	492.4
65°	480.0	422.7	362.0	411.0	439.3
67.5°	411.9	358.7	300.6	366.2	393.6
70°	355.4	312.2	255.8	324.7	355.4
72.5°	310.6	270.7	226.7	291.5	327.2
75°	269.0	233.3	205.9	256.6	296.4
77.5°	233.3	198.5	186.0	226.7	265.7
80°	196.0	164.4	162.8	197.6	226.7
82.5°	152.8	131.2	131.2	165.2	182.7
85°	107.9	94.7	92.2	120.4	122.1
87.5°	55.6	53.1	48.2	63.1	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)