

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: P293501

Luminaire Tested: **24GR-LD5-48-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293501
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-LD5-48-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5115.0 lumens
Efficiency: N/A
Efficacy: 151.5 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

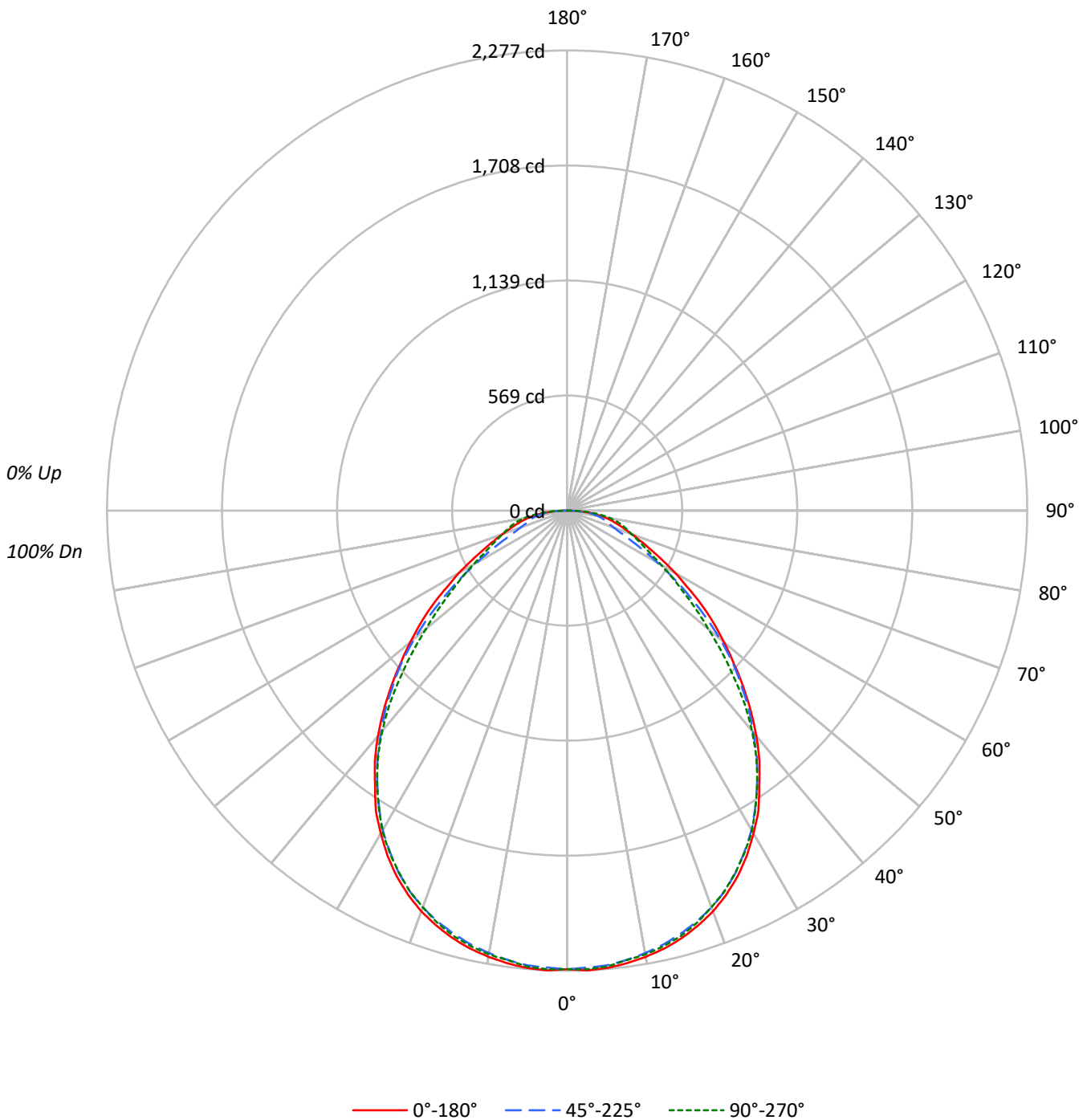
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3054	3054	3054
5°	3068	3051	3059
10°	3063	3038	3047
15°	3051	3020	3034
20°	3022	2992	2990
25°	2963	2932	2929
30°	2865	2836	2842
35°	2722	2691	2695
40°	2559	2515	2500
45°	2346	2314	2222
50°	2120	2063	1907
55°	1904	1733	1644
60°	1667	1395	1446
65°	1454	1097	1331
70°	1330	958	1330
75°	1331	1019	1467
80°	1445	1200	1671
85°	1585	1354	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	4.2
10°-20°	613.3	12.0
20°-30°	909.4	17.8
30°-40°	1025.9	20.1
40°-50°	929.2	18.2
50°-60°	670.4	13.1
60°-70°	400.3	7.8
70°-80°	247.4	4.8
80°-90°	104.2	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°	1737.6	34.0
0°-40°	2763.6	54.0
0°-60°	4363.1	85.3
0°-90°	5115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2272	2269	2259	2257	2265	216
15°	2190	2177	2168	2169	2178	617
25°	1996	1985	1975	1968	1973	917
35°	1657	1655	1638	1639	1640	1037
45°	1233	1225	1216	1186	1168	950
55°	812	786	739	702	701	724
65°	457	402	344	391	418	459
75°	256	222	196	244	282	273
85°	103	90	88	115	116	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2269.5	2269.5	2269.5	2269.5	2269.5
2.5°	2277.4	2271.0	2263.1	2267.9	2271.8
5°	2271.8	2268.7	2259.2	2256.8	2264.7
7.5°	2260.0	2252.1	2243.4	2247.3	2244.2
10°	2241.8	2234.7	2223.6	2224.4	2230.0
12.5°	2219.7	2211.0	2199.1	2202.3	2207.0
15°	2190.4	2177.0	2168.3	2169.1	2177.8
17.5°	2153.3	2143.0	2132.0	2134.3	2138.3
20°	2110.6	2105.1	2089.3	2084.6	2088.5
22.5°	2056.9	2046.6	2037.9	2035.6	2036.4
25°	1996.1	1985.0	1974.7	1967.6	1973.1
27.5°	1924.9	1915.5	1902.0	1899.7	1904.4
30°	1844.3	1837.2	1825.4	1822.2	1829.3
32.5°	1762.2	1750.3	1733.7	1733.7	1735.3
35°	1657.1	1654.7	1638.1	1638.9	1640.5
37.5°	1562.2	1551.2	1541.7	1532.2	1536.9
40°	1457.1	1444.5	1431.8	1425.5	1423.2
42.5°	1344.1	1334.7	1329.1	1306.2	1300.7
45°	1232.7	1224.8	1216.1	1186.1	1167.9
47.5°	1118.9	1117.3	1110.2	1057.3	1039.1
50°	1013.0	1010.7	985.4	929.3	911.1
52.5°	912.7	896.9	863.7	808.4	805.2
55°	811.5	786.3	738.8	702.5	700.9
57.5°	704.9	674.8	626.6	606.9	617.1
60°	619.5	573.7	518.4	520.7	537.3
62.5°	531.0	479.7	425.1	448.8	468.6
65°	456.7	402.2	344.5	391.2	418.0
67.5°	391.9	341.4	286.1	348.5	374.6
70°	338.2	297.1	243.4	309.0	338.2
72.5°	295.5	257.6	215.7	277.4	311.3
75°	256.0	222.0	196.0	244.2	282.1
77.5°	222.0	188.9	177.0	215.7	252.9
80°	186.5	156.5	154.9	188.1	215.7
82.5°	145.4	124.9	124.9	157.3	173.8
85°	102.7	90.1	87.7	114.6	116.2
87.5°	52.9	50.6	45.8	60.1	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)