

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: P293525

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293525
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-LD5-72-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7431.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

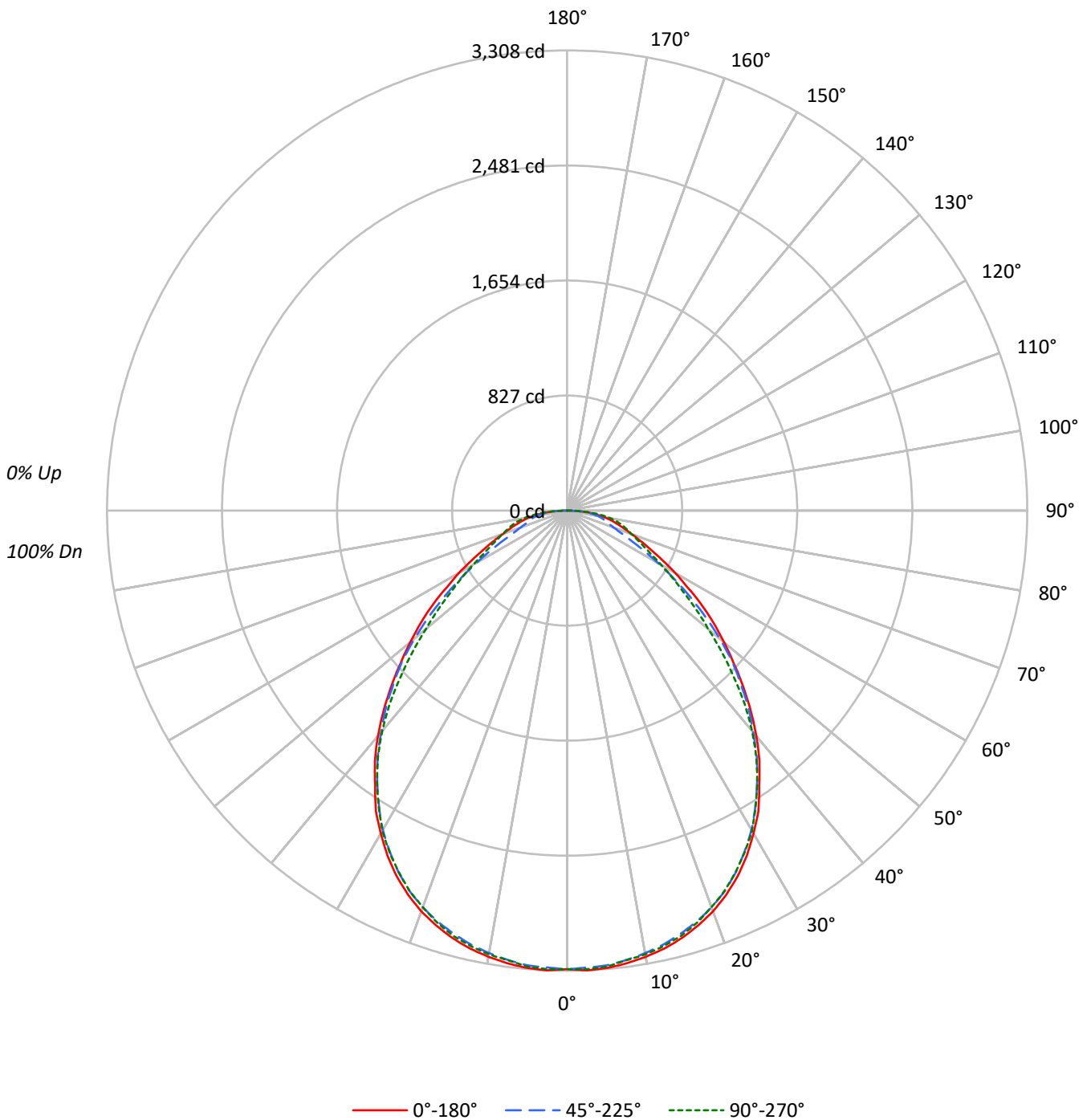
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4436	4436	4436
5°	4458	4433	4444
10°	4450	4414	4426
15°	4433	4388	4407
20°	4390	4346	4344
25°	4305	4259	4256
30°	4163	4120	4129
35°	3954	3909	3914
40°	3718	3654	3631
45°	3408	3362	3228
50°	3081	2997	2771
55°	2766	2518	2389
60°	2422	2027	2101
65°	2112	1593	1933
70°	1933	1391	1933
75°	1934	1480	2130
80°	2099	1743	2428
85°	2303	1967	2606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	4.2
10°-20°	891.0	12.0
20°-30°	1321.2	17.8
30°-40°	1490.5	20.1
40°-50°	1349.9	18.2
50°-60°	973.9	13.1
60°-70°	581.5	7.8
70°-80°	359.4	4.8
80°-90°	151.4	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°	2524.4	34.0
0°-40°	4014.9	54.0
0°-60°	6338.7	85.3
0°-90°	7431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3297	3297	3297	3297	3297	
5°	3300	3296	3282	3279	3290	314
15°	3182	3163	3150	3151	3164	897
25°	2900	2884	2869	2858	2866	1332
35°	2407	2404	2380	2381	2383	1506
45°	1791	1779	1767	1723	1697	1380
55°	1179	1142	1073	1021	1018	1052
65°	664	584	500	568	607	667
75°	372	323	285	355	410	397
85°	149	131	127	166	169	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3297.0	3297.0	3297.0	3297.0	3297.0
2.5°	3308.5	3299.3	3287.9	3294.8	3300.5
5°	3300.5	3295.9	3282.1	3278.7	3290.2
7.5°	3283.3	3271.8	3259.2	3264.9	3260.3
10°	3256.9	3246.5	3230.5	3231.6	3239.6
12.5°	3224.7	3212.1	3194.9	3199.5	3206.4
15°	3182.2	3162.7	3150.1	3151.3	3163.9
17.5°	3128.3	3113.4	3097.3	3100.7	3106.5
20°	3066.3	3058.3	3035.3	3028.4	3034.2
22.5°	2988.2	2973.3	2960.7	2957.2	2958.4
25°	2899.8	2883.8	2868.8	2858.5	2866.5
27.5°	2796.5	2782.7	2763.2	2759.8	2766.7
30°	2679.4	2669.1	2651.9	2647.3	2657.6
32.5°	2560.0	2542.8	2518.7	2518.7	2521.0
35°	2407.4	2403.9	2379.8	2380.9	2383.2
37.5°	2269.6	2253.5	2239.7	2226.0	2232.9
40°	2116.9	2098.5	2080.2	2071.0	2067.5
42.5°	1952.7	1939.0	1930.9	1897.6	1889.6
45°	1790.9	1779.4	1766.8	1723.1	1696.7
47.5°	1625.6	1623.3	1612.9	1536.0	1509.6
50°	1471.7	1468.3	1431.6	1350.0	1323.6
52.5°	1325.9	1303.0	1254.8	1174.4	1169.8
55°	1179.0	1142.3	1073.4	1020.6	1018.3
57.5°	1024.0	980.4	910.4	881.7	896.6
60°	900.0	833.4	753.1	756.5	780.6
62.5°	771.5	696.8	617.6	652.1	680.8
65°	663.5	584.3	500.5	568.3	607.3
67.5°	569.4	495.9	415.6	506.3	544.2
70°	491.3	431.6	353.6	448.9	491.3
72.5°	429.4	374.2	313.4	402.9	452.3
75°	372.0	322.6	284.7	354.7	409.8
77.5°	322.6	274.4	257.2	313.4	367.4
80°	270.9	227.3	225.0	273.2	313.4
82.5°	211.2	181.4	181.4	228.5	252.6
85°	149.2	130.9	127.4	166.5	168.8
87.5°	76.9	73.5	66.6	87.2	87.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)