

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: P293656

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293656
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-LD5-85-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6572.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

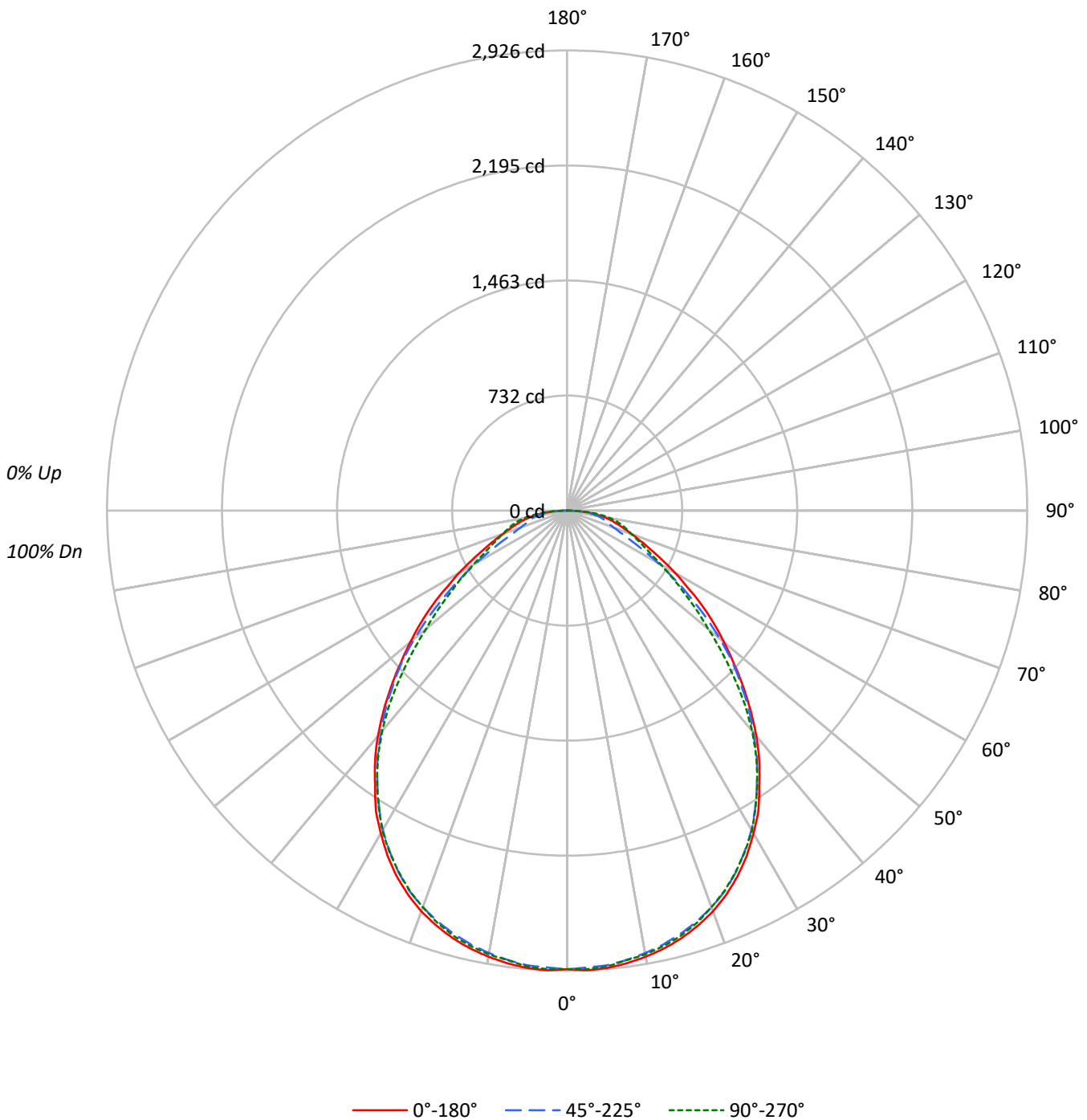
Input Watts (W): 62.217
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3923	3923	3923
5°	3942	3920	3930
10°	3935	3903	3915
15°	3920	3881	3898
20°	3883	3844	3842
25°	3807	3767	3764
30°	3682	3644	3652
35°	3497	3457	3462
40°	3288	3231	3212
45°	3014	2973	2855
50°	2725	2650	2450
55°	2446	2227	2113
60°	2142	1792	1858
65°	1868	1409	1710
70°	1709	1230	1709
75°	1710	1309	1884
80°	1857	1542	2148
85°	2038	1740	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	4.2
10°-20°	788.0	12.0
20°-30°	1168.5	17.8
30°-40°	1318.2	20.1
40°-50°	1193.9	18.2
50°-60°	861.3	13.1
60°-70°	514.3	7.8
70°-80°	317.9	4.8
80°-90°	133.9	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°	2232.6	34.0
0°-40°	3550.8	54.0
0°-60°	5606.0	85.3
0°-90°	6572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2916	2916	2916	2916	2916	
5°	2919	2915	2903	2900	2910	277
15°	2814	2797	2786	2787	2798	793
25°	2565	2550	2537	2528	2535	1178
35°	2129	2126	2105	2106	2108	1332
45°	1584	1574	1562	1524	1501	1221
55°	1043	1010	949	903	901	931
65°	587	517	443	503	537	590
75°	329	285	252	314	362	351
85°	132	116	113	147	149	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2915.9	2915.9	2915.9	2915.9	2915.9
2.5°	2926.1	2918.0	2907.8	2913.9	2919.0
5°	2919.0	2914.9	2902.7	2899.7	2909.8
7.5°	2903.7	2893.6	2882.4	2887.5	2883.4
10°	2880.4	2871.2	2857.0	2858.0	2865.2
12.5°	2852.0	2840.8	2825.6	2829.6	2835.7
15°	2814.4	2797.1	2786.0	2787.0	2798.1
17.5°	2766.7	2753.5	2739.3	2742.3	2747.4
20°	2711.8	2704.7	2684.4	2678.3	2683.4
22.5°	2642.8	2629.6	2618.4	2615.4	2616.4
25°	2564.6	2550.4	2537.2	2528.1	2535.2
27.5°	2473.3	2461.1	2443.8	2440.8	2446.9
30°	2369.7	2360.6	2345.3	2341.3	2350.4
32.5°	2264.1	2248.9	2227.6	2227.6	2229.6
35°	2129.1	2126.0	2104.7	2105.7	2107.7
37.5°	2007.2	1993.0	1980.8	1968.7	1974.7
40°	1872.2	1856.0	1839.7	1831.6	1828.5
42.5°	1727.0	1714.8	1707.7	1678.3	1671.2
45°	1583.9	1573.7	1562.5	1524.0	1500.6
47.5°	1437.7	1435.6	1426.5	1358.5	1335.1
50°	1301.6	1298.6	1266.1	1194.0	1170.6
52.5°	1172.7	1152.4	1109.7	1038.6	1034.6
55°	1042.7	1010.2	949.3	902.6	900.6
57.5°	905.6	867.1	805.1	779.7	792.9
60°	796.0	737.1	666.0	669.1	690.4
62.5°	682.3	616.3	546.2	576.7	602.1
65°	586.8	516.8	442.7	502.6	537.1
67.5°	503.6	438.6	367.5	447.7	481.2
70°	434.5	381.7	312.7	397.0	434.5
72.5°	379.7	331.0	277.2	356.4	400.0
75°	329.0	285.3	251.8	313.7	362.5
77.5°	285.3	242.7	227.4	277.2	324.9
80°	239.6	201.0	199.0	241.6	277.2
82.5°	186.8	160.4	160.4	202.0	223.4
85°	132.0	115.7	112.7	147.2	149.2
87.5°	68.0	65.0	58.9	77.2	77.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)