

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: P293508

Luminaire Tested: **24GR-LD5-56-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293508
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-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5870.0 lumens
Efficiency: N/A
Efficacy: 147.1 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

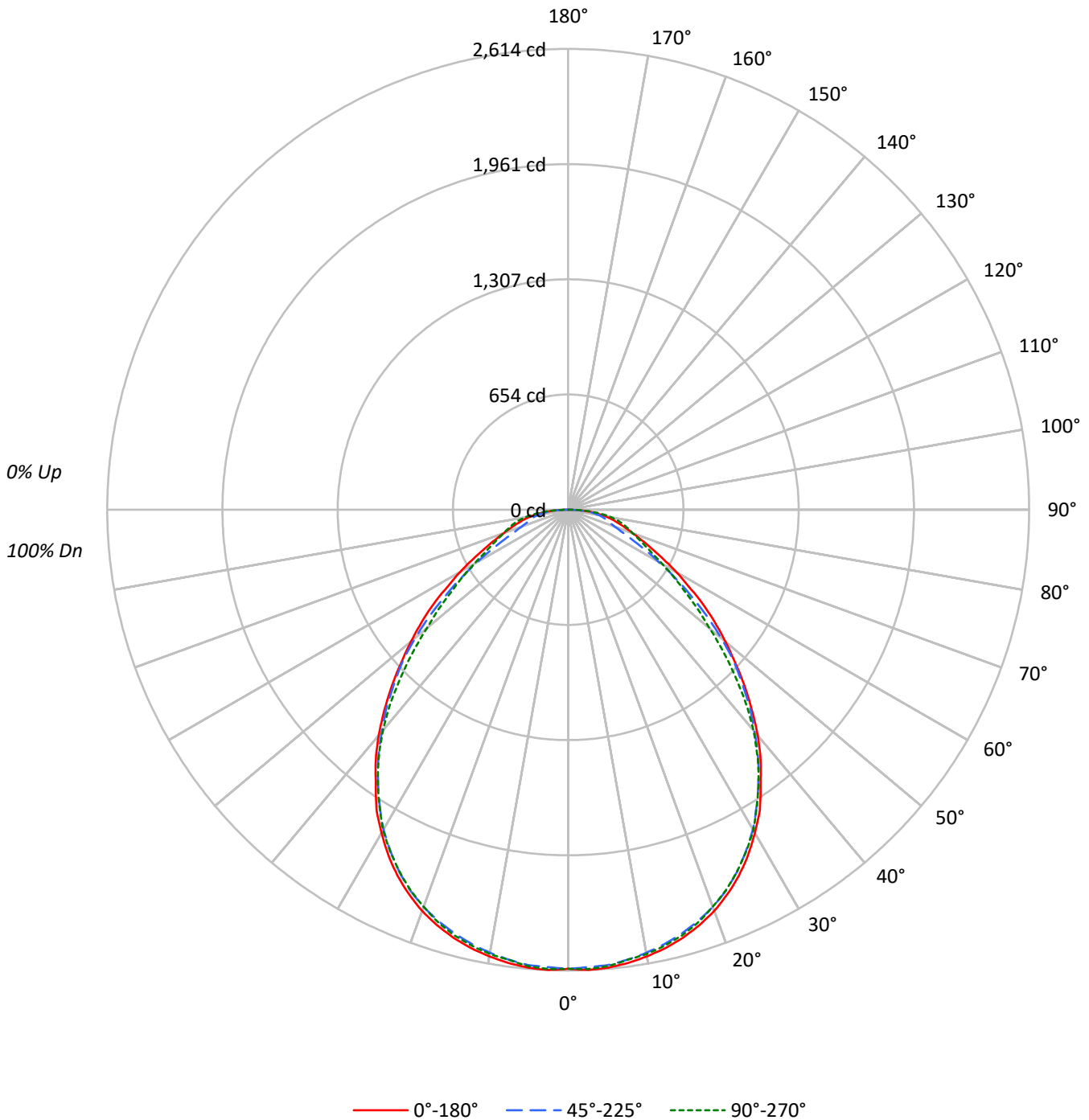
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3504	3504	3504
5°	3521	3502	3510
10°	3515	3487	3496
15°	3502	3466	3481
20°	3468	3433	3432
25°	3401	3364	3362
30°	3288	3255	3262
35°	3123	3088	3092
40°	2937	2886	2869
45°	2692	2656	2550
50°	2434	2367	2189
55°	2185	1989	1887
60°	1913	1601	1660
65°	1669	1259	1527
70°	1527	1099	1527
75°	1527	1169	1683
80°	1658	1377	1918
85°	1820	1555	2058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	4.2
10°-20°	703.8	12.0
20°-30°	1043.7	17.8
30°-40°	1177.4	20.1
40°-50°	1066.4	18.2
50°-60°	769.3	13.1
60°-70°	459.4	7.8
70°-80°	283.9	4.8
80°-90°	119.6	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°	1994.1	34.0
0°-40°	3171.5	54.0
0°-60°	5007.2	85.3
0°-90°	5870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2607	2604	2593	2590	2599	248
15°	2514	2498	2488	2489	2499	709
25°	2291	2278	2266	2258	2264	1052
35°	1902	1899	1880	1881	1883	1190
45°	1415	1406	1396	1361	1340	1090
55°	931	902	848	806	804	831
65°	524	462	395	449	480	527
75°	294	255	225	280	324	314
85°	118	103	101	132	133	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2604.5	2604.5	2604.5	2604.5	2604.5
2.5°	2613.5	2606.3	2597.2	2602.6	2607.2
5°	2607.2	2603.5	2592.7	2589.9	2599.0
7.5°	2593.6	2584.5	2574.5	2579.1	2575.4
10°	2572.7	2564.5	2551.9	2552.8	2559.1
12.5°	2547.3	2537.3	2523.7	2527.4	2532.8
15°	2513.8	2498.4	2488.4	2489.3	2499.3
17.5°	2471.1	2459.4	2446.7	2449.4	2453.9
20°	2422.2	2415.8	2397.7	2392.2	2396.8
22.5°	2360.5	2348.7	2338.7	2336.0	2336.9
25°	2290.7	2278.0	2266.2	2258.0	2264.4
27.5°	2209.1	2198.2	2182.8	2180.0	2185.5
30°	2116.6	2108.4	2094.8	2091.2	2099.3
32.5°	2022.3	2008.7	1989.6	1989.6	1991.4
35°	1901.6	1898.9	1879.9	1880.8	1882.6
37.5°	1792.8	1780.1	1769.2	1758.4	1763.8
40°	1672.2	1657.7	1643.2	1635.9	1633.2
42.5°	1542.5	1531.7	1525.3	1499.0	1492.7
45°	1414.7	1405.6	1395.6	1361.2	1340.3
47.5°	1284.1	1282.3	1274.1	1213.4	1192.5
50°	1162.6	1159.9	1130.8	1066.4	1045.6
52.5°	1047.4	1029.3	991.2	927.7	924.1
55°	931.3	902.3	847.9	806.2	804.4
57.5°	808.9	774.4	719.1	696.5	708.2
60°	711.0	658.4	594.9	597.6	616.7
62.5°	609.4	550.5	487.9	515.1	537.8
65°	524.2	461.6	395.4	448.9	479.7
67.5°	449.8	391.8	328.3	399.9	429.8
70°	388.1	341.0	279.3	354.6	388.1
72.5°	339.2	295.6	247.6	318.3	357.3
75°	293.8	254.8	224.9	280.2	323.7
77.5°	254.8	216.7	203.1	247.6	290.2
80°	214.0	179.6	177.7	215.8	247.6
82.5°	166.9	143.3	143.3	180.5	199.5
85°	117.9	103.4	100.7	131.5	133.3
87.5°	60.8	58.0	52.6	68.9	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)