

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: P293506

Luminaire Tested: **24GR-LD5-56-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293506
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5691.0 lumens
Efficiency: N/A
Efficacy: 144.3 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

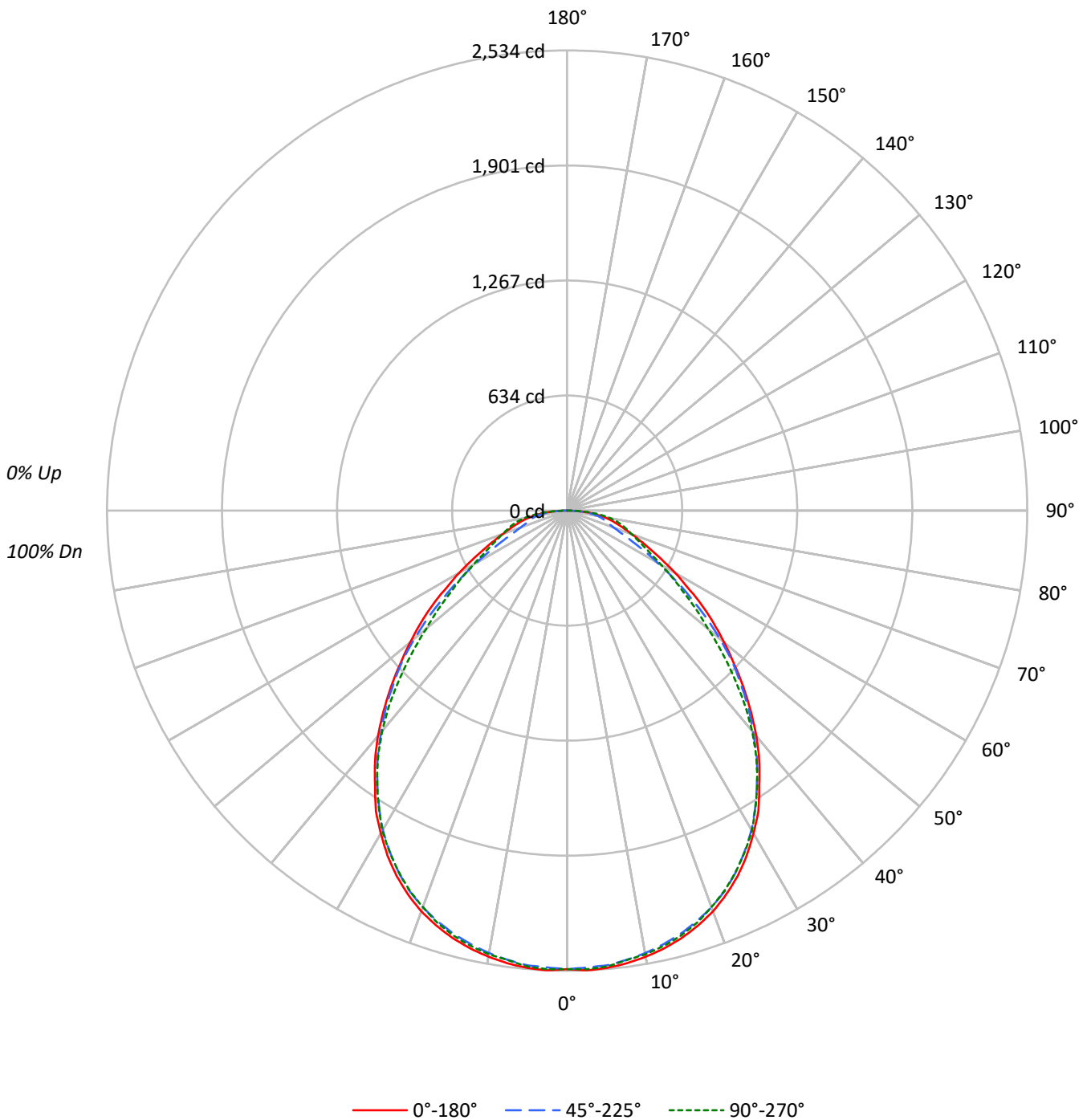
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3397	3397	3397
5°	3414	3395	3403
10°	3408	3380	3390
15°	3395	3360	3375
20°	3362	3328	3327
25°	3297	3262	3259
30°	3188	3155	3162
35°	3028	2994	2998
40°	2847	2798	2781
45°	2610	2575	2473
50°	2359	2295	2122
55°	2118	1928	1829
60°	1855	1552	1609
65°	1618	1220	1481
70°	1480	1065	1480
75°	1481	1133	1632
80°	1608	1335	1860
85°	1765	1507	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	4.2
10°-20°	682.4	12.0
20°-30°	1011.8	17.8
30°-40°	1141.5	20.1
40°-50°	1033.8	18.2
50°-60°	745.8	13.1
60°-70°	445.3	7.8
70°-80°	275.2	4.8
80°-90°	116.0	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°	1933.3	34.0
0°-40°	3074.8	54.0
0°-60°	4854.5	85.3
0°-90°	5691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2528	2524	2514	2511	2520	240
15°	2437	2422	2412	2413	2423	687
25°	2221	2208	2197	2189	2195	1020
35°	1844	1841	1823	1823	1825	1154
45°	1372	1363	1353	1320	1299	1057
55°	903	875	822	782	780	806
65°	508	448	383	435	465	511
75°	285	247	218	272	314	304
85°	114	100	98	128	129	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2525.0	2525.0	2525.0	2525.0	2525.0
2.5°	2533.8	2526.8	2518.0	2523.3	2527.7
5°	2527.7	2524.2	2513.6	2511.0	2519.8
7.5°	2514.5	2505.7	2496.0	2500.4	2496.9
10°	2494.3	2486.3	2474.0	2474.9	2481.1
12.5°	2469.6	2460.0	2446.8	2450.3	2455.6
15°	2437.1	2422.2	2412.5	2413.4	2423.0
17.5°	2395.8	2384.4	2372.1	2374.7	2379.1
20°	2348.3	2342.2	2324.6	2319.3	2323.7
22.5°	2288.5	2277.1	2267.4	2264.8	2265.7
25°	2220.8	2208.5	2197.1	2189.2	2195.3
27.5°	2141.7	2131.2	2116.2	2113.6	2118.8
30°	2052.0	2044.1	2030.9	2027.4	2035.3
32.5°	1960.6	1947.4	1928.9	1928.9	1930.7
35°	1843.7	1841.0	1822.6	1823.4	1825.2
37.5°	1738.2	1725.8	1715.3	1704.7	1710.0
40°	1621.2	1607.2	1593.1	1586.1	1583.4
42.5°	1495.5	1485.0	1478.8	1453.3	1447.1
45°	1371.5	1362.7	1353.1	1319.7	1299.4
47.5°	1244.9	1243.2	1235.3	1176.4	1156.1
50°	1127.1	1124.5	1096.3	1033.9	1013.7
52.5°	1015.5	997.9	961.0	899.4	895.9
55°	902.9	874.8	822.0	781.6	779.8
57.5°	784.2	750.8	697.2	675.2	686.6
60°	689.3	638.3	576.7	579.4	597.8
62.5°	590.8	533.7	473.0	499.4	521.4
65°	508.2	447.5	383.3	435.2	465.1
67.5°	436.1	379.8	318.3	387.7	416.7
70°	376.3	330.6	270.8	343.8	376.3
72.5°	328.8	286.6	240.0	308.6	346.4
75°	284.9	247.1	218.0	271.7	313.9
77.5°	247.1	210.1	196.9	240.0	281.3
80°	207.5	174.1	172.3	209.2	240.0
82.5°	161.8	138.9	138.9	175.0	193.4
85°	114.3	100.2	97.6	127.5	129.2
87.5°	58.9	56.3	51.0	66.8	66.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)