

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: P293577

Luminaire Tested: **24GR-LD5-72-A-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293577
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-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

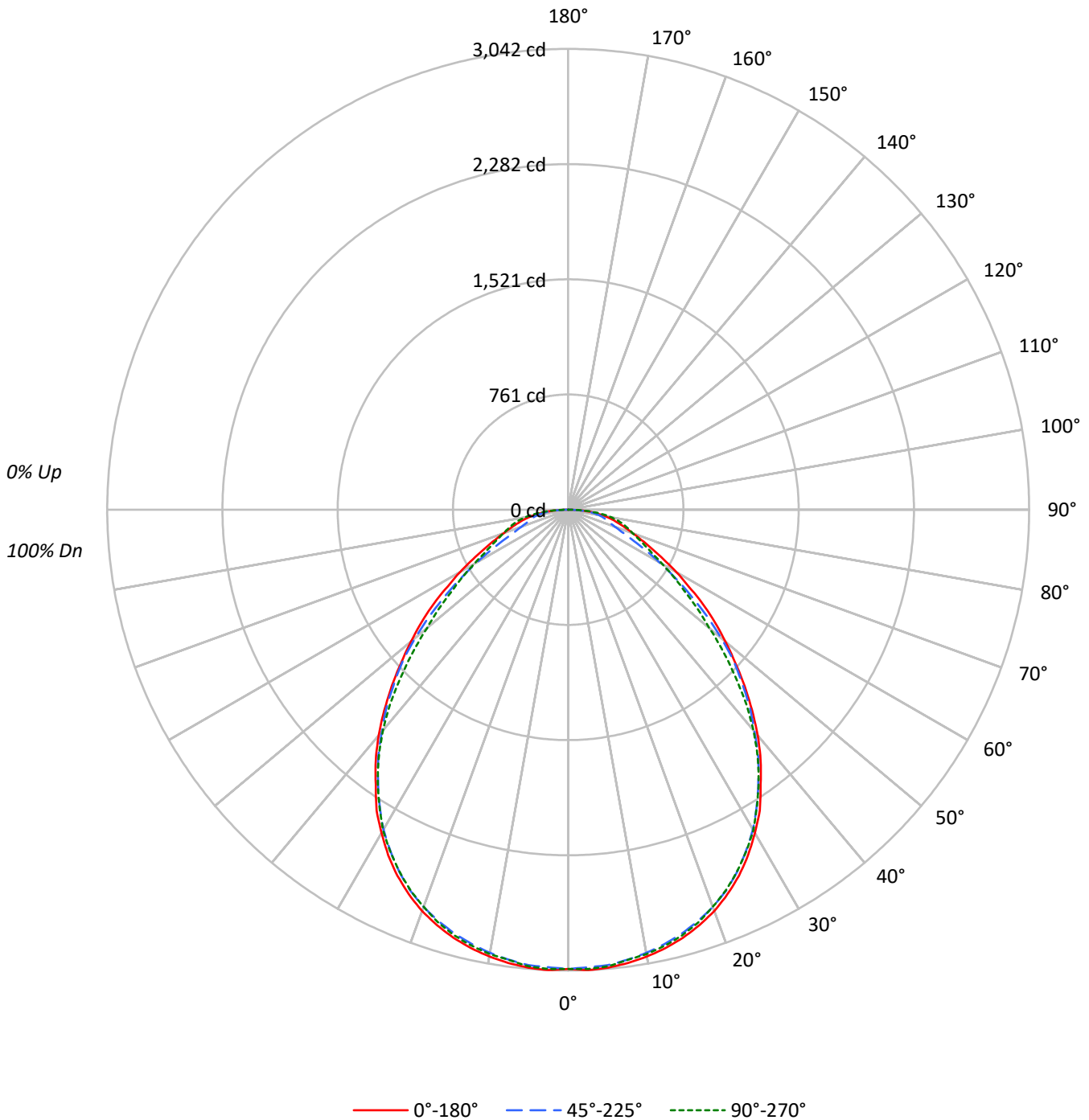
Input Watts (W): 54.75189
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4079	4079	4079
5°	4098	4076	4086
10°	4091	4058	4069
15°	4075	4034	4052
20°	4036	3996	3994
25°	3958	3916	3913
30°	3827	3788	3796
35°	3635	3594	3599
40°	3419	3359	3339
45°	3133	3091	2968
50°	2832	2755	2547
55°	2543	2315	2196
60°	2227	1863	1931
65°	1942	1465	1777
70°	1777	1279	1777
75°	1778	1361	1959
80°	1930	1603	2232
85°	2118	1809	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	4.2
10°-20°	819.2	12.0
20°-30°	1214.7	17.8
30°-40°	1370.3	20.1
40°-50°	1241.1	18.2
50°-60°	895.4	13.1
60°-70°	534.6	7.8
70°-80°	330.4	4.8
80°-90°	139.2	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°	2320.9	34.0
0°-40°	3691.3	54.0
0°-60°	5827.7	85.3
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3031	3031	3031	3031	3031	
5°	3034	3030	3018	3014	3025	288
15°	2926	2908	2896	2897	2909	825
25°	2666	2651	2638	2628	2636	1225
35°	2213	2210	2188	2189	2191	1385
45°	1646	1636	1624	1584	1560	1269
55°	1084	1050	987	938	936	968
65°	610	537	460	522	558	614
75°	342	297	262	326	377	365
85°	137	120	117	153	155	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3031.3	3031.3	3031.3	3031.3	3031.3
2.5°	3041.8	3033.4	3022.8	3029.2	3034.4
5°	3034.4	3030.2	3017.6	3014.4	3024.9
7.5°	3018.6	3008.1	2996.4	3001.7	2997.5
10°	2994.3	2984.8	2970.1	2971.1	2978.5
12.5°	2964.8	2953.2	2937.3	2941.6	2947.9
15°	2925.7	2907.8	2896.2	2897.2	2908.8
17.5°	2876.1	2862.4	2847.6	2850.8	2856.1
20°	2819.1	2811.7	2790.6	2784.3	2789.6
22.5°	2747.4	2733.6	2722.0	2718.9	2719.9
25°	2666.1	2651.3	2637.6	2628.1	2635.5
27.5°	2571.1	2558.4	2540.5	2537.3	2543.7
30°	2463.4	2453.9	2438.1	2433.9	2443.4
32.5°	2353.7	2337.8	2315.7	2315.7	2317.8
35°	2213.3	2210.1	2188.0	2189.0	2191.1
37.5°	2086.6	2071.9	2059.2	2046.5	2052.9
40°	1946.3	1929.4	1912.5	1904.0	1900.9
42.5°	1795.3	1782.7	1775.3	1744.7	1737.3
45°	1646.5	1636.0	1624.4	1584.2	1560.0
47.5°	1494.5	1492.4	1482.9	1412.2	1387.9
50°	1353.1	1349.9	1316.2	1241.2	1216.9
52.5°	1219.1	1197.9	1153.6	1079.7	1075.5
55°	1084.0	1050.2	986.9	938.3	936.2
57.5°	941.5	901.4	837.0	810.6	824.3
60°	827.5	766.3	692.4	695.5	717.7
62.5°	709.3	640.7	567.8	599.5	625.9
65°	610.1	537.2	460.2	522.5	558.3
67.5°	523.5	456.0	382.1	465.5	500.3
70°	451.7	396.9	325.1	412.7	451.7
72.5°	394.7	344.1	288.1	370.5	415.9
75°	342.0	296.6	261.8	326.1	376.8
77.5°	296.6	252.3	236.4	288.1	337.7
80°	249.1	209.0	206.9	251.2	288.1
82.5°	194.2	166.8	166.8	210.0	232.2
85°	137.2	120.3	117.2	153.0	155.2
87.5°	70.7	67.5	61.2	80.2	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)