

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: P293151

Luminaire Tested: **24GR-LD5-72-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6862.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

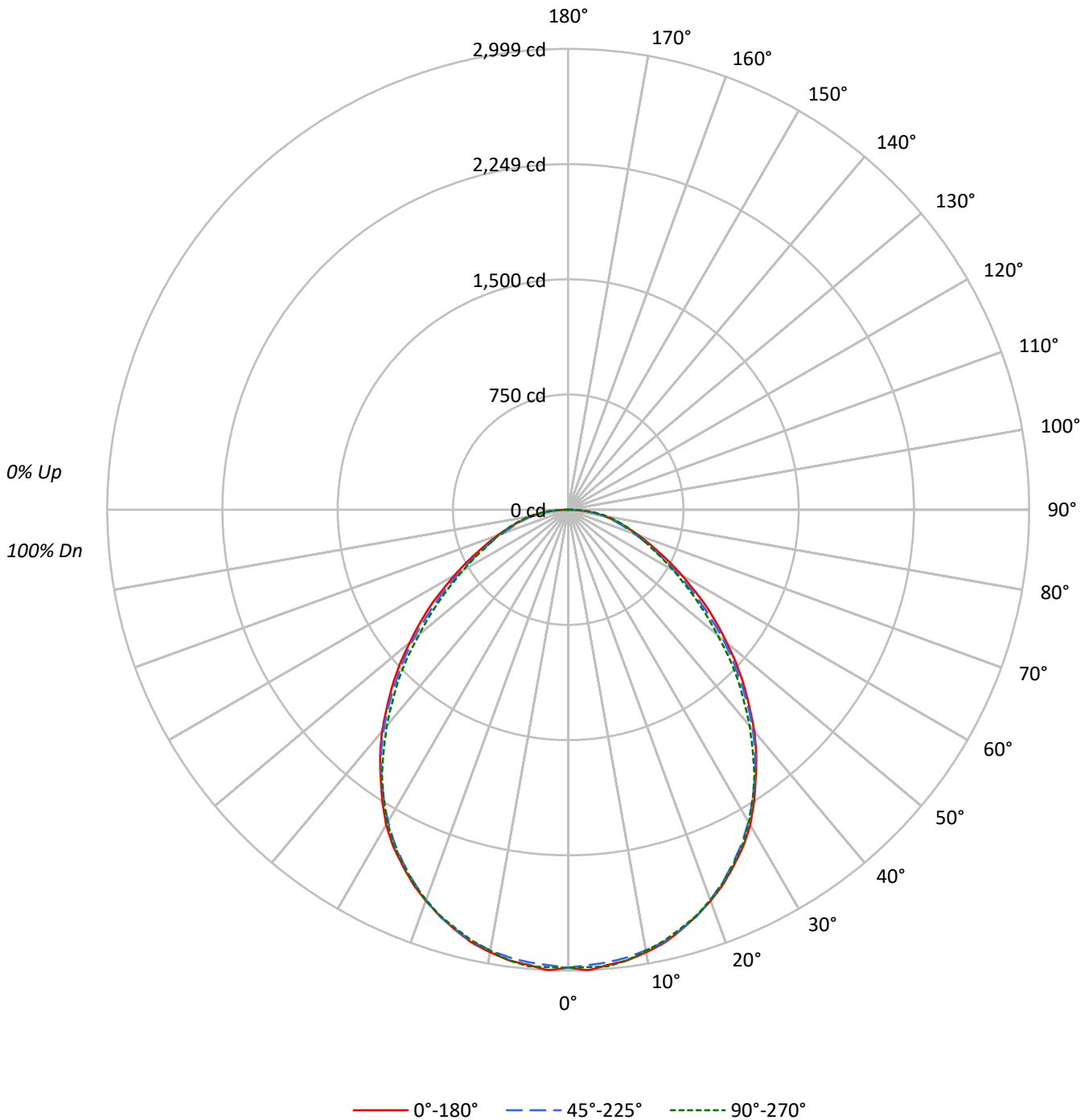
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4011	4011	4011
5°	4016	3993	4028
10°	3995	3978	3982
15°	3945	3941	3931
20°	3879	3871	3871
25°	3788	3767	3776
30°	3679	3641	3652
35°	3494	3478	3469
40°	3309	3279	3222
45°	3076	3022	2962
50°	2817	2755	2651
55°	2573	2457	2374
60°	2293	2182	2125
65°	2064	1956	1929
70°	1915	1799	1871
75°	1832	1751	1899
80°	1832	1832	2029
85°	1900	1922	2141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	4.1
10°-20°	796.6	11.6
20°-30°	1169.1	17.0
30°-40°	1321.8	19.3
40°-50°	1221.6	17.8
50°-60°	941.2	13.7
60°-70°	623.2	9.1
70°-80°	371.0	5.4
80°-90°	135.9	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°	2247.2	32.7
0°-40°	3569.0	52.0
0°-60°	5731.8	83.5
0°-90°	6862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2981	2981	2981	2981	2981	
5°	2974	2974	2957	2958	2982	283
15°	2832	2826	2829	2828	2822	798
25°	2552	2545	2538	2535	2543	1175
35°	2127	2124	2117	2107	2112	1331
45°	1616	1605	1588	1560	1557	1245
55°	1097	1074	1047	1019	1012	978
65°	648	638	614	609	606	650
75°	352	344	337	352	365	376
85°	123	116	124	137	139	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2980.7	2980.7	2980.7	2980.7	2980.7
2.5°	2999.1	2983.5	2966.5	2966.5	2979.3
5°	2973.6	2973.6	2956.6	2958.0	2982.1
7.5°	2958.0	2949.6	2938.2	2938.2	2956.6
10°	2924.1	2917.0	2911.3	2908.5	2914.2
12.5°	2887.3	2876.0	2880.2	2876.0	2874.5
15°	2832.1	2826.4	2829.2	2827.8	2822.2
17.5°	2772.6	2769.8	2775.5	2765.6	2769.8
20°	2708.9	2700.5	2703.3	2697.6	2703.3
22.5°	2636.8	2631.1	2624.0	2616.9	2628.3
25°	2551.8	2544.8	2537.7	2534.9	2543.4
27.5°	2466.9	2455.6	2445.7	2442.9	2455.6
30°	2367.9	2355.1	2343.8	2341.0	2350.9
32.5°	2250.4	2247.5	2233.4	2227.7	2232.0
35°	2127.2	2124.4	2117.3	2107.4	2111.7
37.5°	2009.8	2008.4	1998.4	1981.5	1970.1
40°	1883.8	1873.9	1866.8	1842.8	1834.3
42.5°	1745.1	1742.3	1729.5	1702.6	1692.7
45°	1616.3	1605.0	1588.0	1559.7	1556.9
47.5°	1483.3	1467.7	1452.1	1416.7	1415.3
50°	1346.0	1334.7	1316.3	1280.9	1266.7
52.5°	1218.6	1203.0	1177.6	1143.6	1136.5
55°	1096.9	1074.2	1047.3	1019.0	1012.0
57.5°	966.7	956.8	924.2	901.6	893.1
60°	852.0	843.5	811.0	789.8	789.8
62.5°	748.7	736.0	707.7	693.5	693.5
65°	648.2	638.3	614.3	608.6	605.8
67.5°	561.9	549.1	532.2	530.7	537.8
70°	486.9	471.3	457.2	471.3	475.6
72.5°	416.1	406.2	393.5	411.9	420.4
75°	352.4	343.9	336.8	352.4	365.2
77.5°	294.4	285.9	285.9	302.9	314.2
80°	236.4	230.7	236.4	250.5	261.8
82.5°	181.2	176.9	184.0	198.1	205.2
85°	123.1	116.1	124.5	137.3	138.7
87.5°	58.0	56.6	62.3	70.8	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)