

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: P293127

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293127
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-LD5-56-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

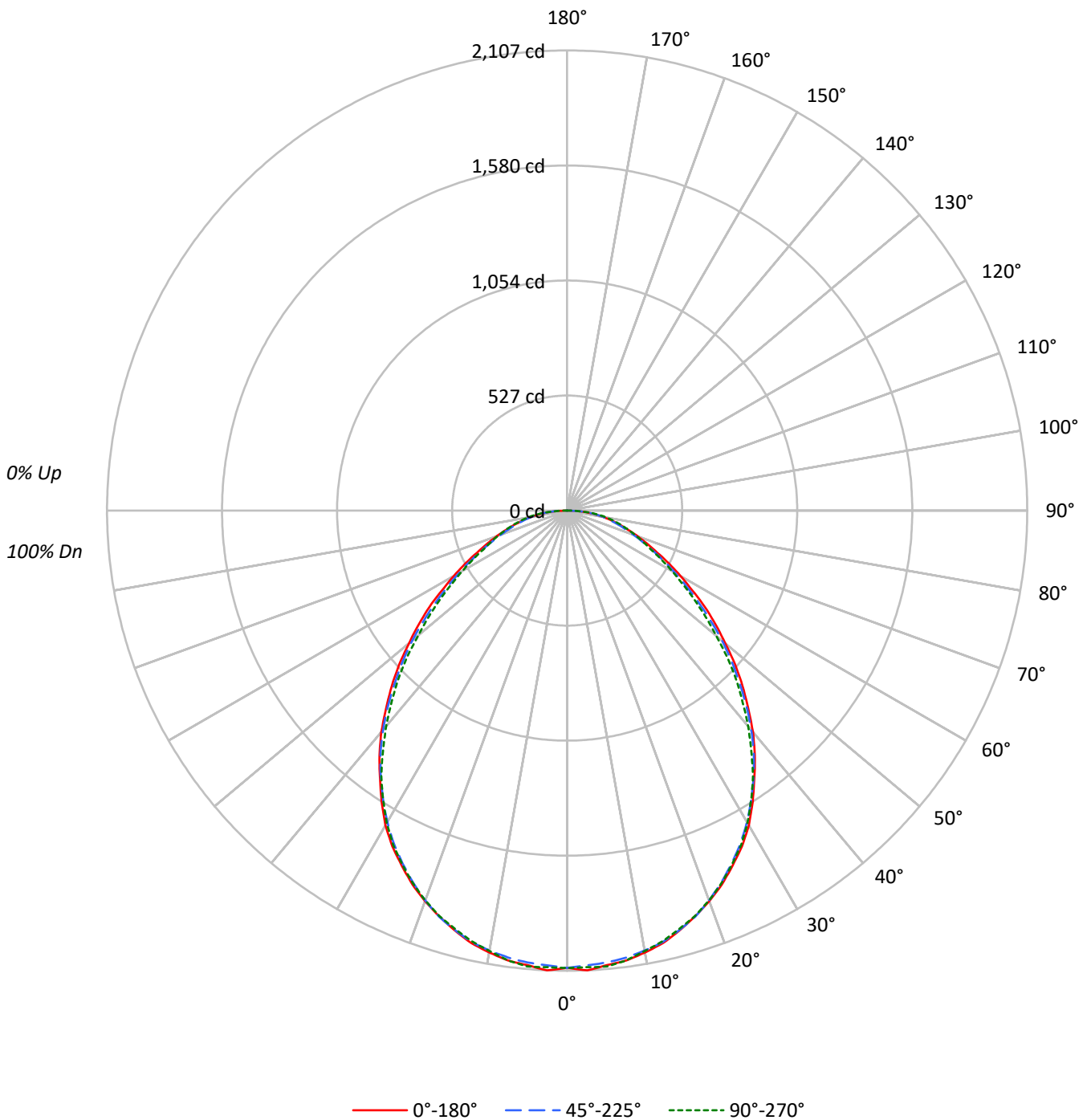
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2818	2818	2818
5°	2822	2806	2830
10°	2807	2795	2797
15°	2772	2769	2762
20°	2725	2719	2719
25°	2662	2647	2653
30°	2585	2558	2566
35°	2455	2443	2437
40°	2325	2304	2263
45°	2161	2123	2081
50°	1979	1936	1863
55°	1808	1726	1668
60°	1611	1533	1493
65°	1450	1374	1355
70°	1346	1264	1314
75°	1287	1231	1333
80°	1287	1287	1426
85°	1335	1351	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	4.1
10°-20°	559.7	11.6
20°-30°	821.4	17.0
30°-40°	928.6	19.3
40°-50°	858.3	17.8
50°-60°	661.2	13.7
60°-70°	437.9	9.1
70°-80°	260.7	5.4
80°-90°	95.5	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°	1578.8	32.7
0°-40°	2507.5	52.0
0°-60°	4027.0	83.5
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2089	2089	2077	2078	2095	199
15°	1990	1986	1988	1987	1983	561
25°	1793	1788	1783	1781	1787	826
35°	1494	1492	1488	1481	1484	935
45°	1136	1128	1116	1096	1094	875
55°	771	755	736	716	711	687
65°	455	448	432	428	426	457
75°	248	242	237	248	256	264
85°	86	82	88	96	97	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.1	2094.1	2094.1	2094.1	2094.1
2.5°	2107.1	2096.1	2084.2	2084.2	2093.1
5°	2089.2	2089.2	2077.2	2078.2	2095.1
7.5°	2078.2	2072.3	2064.3	2064.3	2077.2
10°	2054.4	2049.4	2045.4	2043.4	2047.4
12.5°	2028.5	2020.5	2023.5	2020.5	2019.6
15°	1989.7	1985.7	1987.7	1986.7	1982.8
17.5°	1948.0	1946.0	1949.9	1943.0	1946.0
20°	1903.2	1897.2	1899.2	1895.3	1899.2
22.5°	1852.5	1848.5	1843.5	1838.6	1846.5
25°	1792.8	1787.9	1782.9	1780.9	1786.9
27.5°	1733.2	1725.2	1718.3	1716.3	1725.2
30°	1663.6	1654.6	1646.7	1644.7	1651.6
32.5°	1581.0	1579.0	1569.1	1565.1	1568.1
35°	1494.5	1492.5	1487.6	1480.6	1483.6
37.5°	1412.0	1411.0	1404.0	1392.1	1384.2
40°	1323.5	1316.5	1311.6	1294.7	1288.7
42.5°	1226.0	1224.1	1215.1	1196.2	1189.3
45°	1135.6	1127.6	1115.7	1095.8	1093.8
47.5°	1042.1	1031.2	1020.2	995.4	994.4
50°	945.6	937.7	924.8	899.9	890.0
52.5°	856.1	845.2	827.3	803.4	798.5
55°	770.6	754.7	735.8	715.9	711.0
57.5°	679.1	672.2	649.3	633.4	627.4
60°	598.6	592.6	569.8	554.9	554.9
62.5°	526.0	517.1	497.2	487.2	487.2
65°	455.4	448.5	431.6	427.6	425.6
67.5°	394.8	385.8	373.9	372.9	377.9
70°	342.1	331.1	321.2	331.1	334.1
72.5°	292.3	285.4	276.4	289.4	295.3
75°	247.6	241.6	236.7	247.6	256.5
77.5°	206.8	200.9	200.9	212.8	220.7
80°	166.1	162.1	166.1	176.0	184.0
82.5°	127.3	124.3	129.3	139.2	144.2
85°	86.5	81.5	87.5	96.5	97.4
87.5°	40.8	39.8	43.8	49.7	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)