

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: P292935

Luminaire Tested: **24GR-LD5-56-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292935
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5635.0 lumens
Efficiency: N/A
Efficacy: 144.6 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

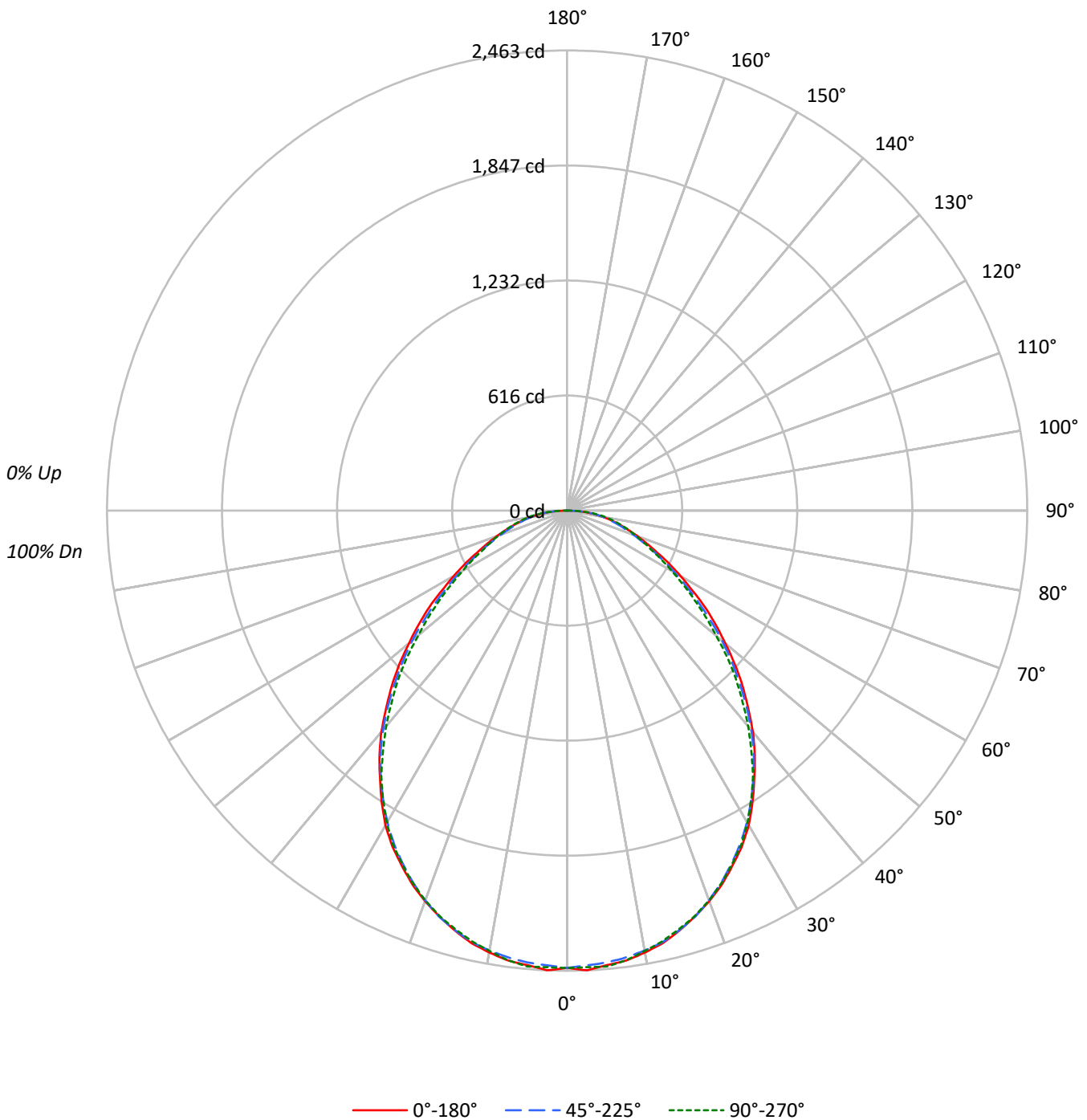
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3293	3293	3293
5°	3298	3279	3308
10°	3281	3266	3270
15°	3240	3236	3228
20°	3185	3179	3179
25°	3111	3094	3101
30°	3021	2990	2999
35°	2869	2856	2848
40°	2717	2693	2646
45°	2526	2481	2433
50°	2314	2263	2177
55°	2113	2018	1949
60°	1883	1792	1745
65°	1695	1606	1584
70°	1573	1477	1536
75°	1504	1438	1559
80°	1504	1504	1666
85°	1561	1579	1758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	4.1
10°-20°	654.2	11.6
20°-30°	960.1	17.0
30°-40°	1085.4	19.3
40°-50°	1003.2	17.8
50°-60°	772.9	13.7
60°-70°	511.8	9.1
70°-80°	304.7	5.4
80°-90°	111.6	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°	1845.4	32.7
0°-40°	2930.8	52.0
0°-60°	4706.9	83.5
0°-90°	5635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2442	2442	2428	2429	2449	232
15°	2326	2321	2323	2322	2318	655
25°	2096	2090	2084	2082	2089	965
35°	1747	1744	1739	1731	1734	1093
45°	1327	1318	1304	1281	1278	1022
55°	901	882	860	837	831	803
65°	532	524	504	500	497	534
75°	289	282	277	289	300	309
85°	101	95	102	113	114	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2462.8	2450.0	2436.1	2436.1	2446.5
5°	2441.9	2441.9	2428.0	2429.1	2448.9
7.5°	2429.1	2422.1	2412.8	2412.8	2428.0
10°	2401.2	2395.4	2390.8	2388.4	2393.1
12.5°	2371.0	2361.7	2365.2	2361.7	2360.5
15°	2325.7	2321.0	2323.3	2322.2	2317.5
17.5°	2276.9	2274.5	2279.2	2271.0	2274.5
20°	2224.6	2217.6	2219.9	2215.3	2219.9
22.5°	2165.3	2160.6	2154.8	2149.0	2158.3
25°	2095.5	2089.7	2083.9	2081.6	2088.6
27.5°	2025.8	2016.5	2008.4	2006.1	2016.5
30°	1944.5	1934.0	1924.7	1922.4	1930.5
32.5°	1848.0	1845.7	1834.0	1829.4	1832.9
35°	1746.9	1744.5	1738.7	1730.6	1734.1
37.5°	1650.4	1649.2	1641.1	1627.2	1617.9
40°	1547.0	1538.8	1533.0	1513.3	1506.3
42.5°	1433.1	1430.7	1420.3	1398.2	1390.1
45°	1327.3	1318.0	1304.1	1280.8	1278.5
47.5°	1218.0	1205.3	1192.5	1163.4	1162.3
50°	1105.3	1096.0	1080.9	1051.8	1040.2
52.5°	1000.7	987.9	967.0	939.1	933.3
55°	900.7	882.2	860.1	836.8	831.0
57.5°	793.8	785.7	759.0	740.4	733.4
60°	699.7	692.7	666.0	648.5	648.5
62.5°	614.8	604.4	581.1	569.5	569.5
65°	532.3	524.2	504.4	499.8	497.4
67.5°	461.4	451.0	437.0	435.8	441.7
70°	399.8	387.0	375.4	387.0	390.5
72.5°	341.7	333.6	323.1	338.2	345.2
75°	289.4	282.4	276.6	289.4	299.9
77.5°	241.7	234.8	234.8	248.7	258.0
80°	194.1	189.4	194.1	205.7	215.0
82.5°	148.8	145.3	151.1	162.7	168.5
85°	101.1	95.3	102.3	112.7	113.9
87.5°	47.7	46.5	51.1	58.1	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)