

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: P292934

Luminaire Tested: **24GR-LD5-56-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292934
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

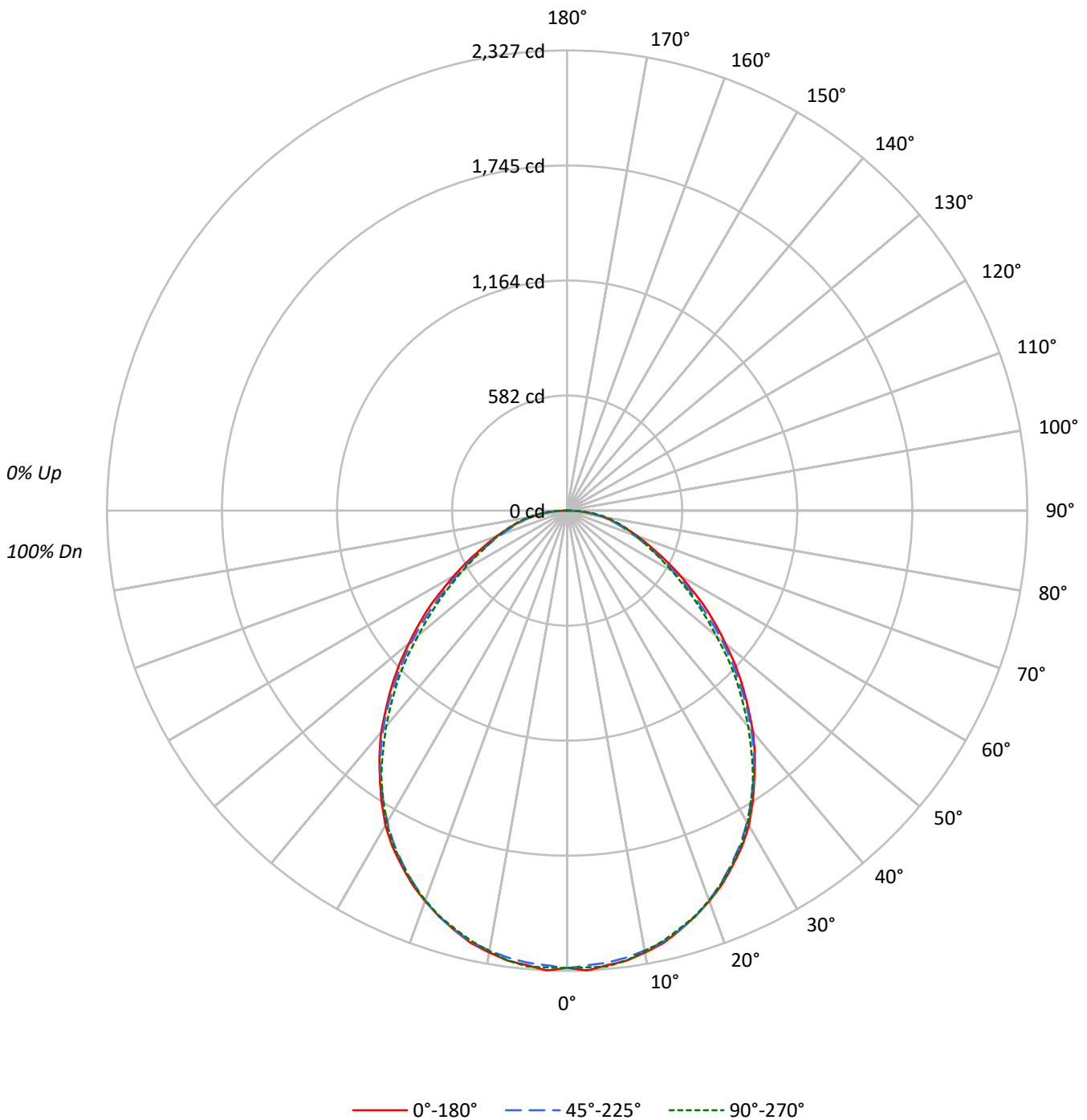
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3112	3112	3112
5°	3117	3099	3126
10°	3100	3087	3090
15°	3061	3058	3051
20°	3010	3004	3004
25°	2940	2924	2930
30°	2855	2826	2834
35°	2712	2699	2692
40°	2568	2545	2500
45°	2387	2345	2299
50°	2186	2138	2058
55°	1997	1907	1842
60°	1779	1693	1649
65°	1601	1518	1497
70°	1486	1396	1452
75°	1422	1359	1473
80°	1421	1421	1574
85°	1476	1493	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	4.1
10°-20°	618.2	11.6
20°-30°	907.3	17.0
30°-40°	1025.7	19.3
40°-50°	948.0	17.8
50°-60°	730.4	13.7
60°-70°	483.6	9.1
70°-80°	287.9	5.4
80°-90°	105.5	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°	1743.9	32.7
0°-40°	2769.6	52.0
0°-60°	4448.0	83.5
0°-90°	5325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2313	2313	2313	2313	2313	
5°	2308	2308	2294	2296	2314	219
15°	2198	2193	2196	2194	2190	619
25°	1980	1975	1969	1967	1974	912
35°	1651	1649	1643	1635	1639	1033
45°	1254	1246	1232	1210	1208	966
55°	851	834	813	791	785	759
65°	503	495	477	472	470	504
75°	274	267	261	274	283	292
85°	96	90	97	106	108	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2313.1	2313.1	2313.1	2313.1	2313.1
2.5°	2327.3	2315.3	2302.1	2302.1	2312.0
5°	2307.6	2307.6	2294.4	2295.5	2314.2
7.5°	2295.5	2288.9	2280.1	2280.1	2294.4
10°	2269.1	2263.6	2259.2	2257.0	2261.4
12.5°	2240.6	2231.8	2235.1	2231.8	2230.7
15°	2197.7	2193.3	2195.5	2194.4	2190.0
17.5°	2151.6	2149.4	2153.8	2146.1	2149.4
20°	2102.2	2095.6	2097.8	2093.4	2097.8
22.5°	2046.2	2041.8	2036.3	2030.8	2039.6
25°	1980.3	1974.8	1969.3	1967.1	1973.7
27.5°	1914.4	1905.6	1897.9	1895.7	1905.6
30°	1837.5	1827.6	1818.8	1816.6	1824.3
32.5°	1746.3	1744.1	1733.1	1728.7	1732.0
35°	1650.8	1648.6	1643.1	1635.4	1638.7
37.5°	1559.6	1558.5	1550.8	1537.6	1528.9
40°	1461.9	1454.2	1448.7	1430.0	1423.4
42.5°	1354.2	1352.0	1342.1	1321.3	1313.6
45°	1254.3	1245.5	1232.3	1210.3	1208.1
47.5°	1151.0	1139.0	1126.9	1099.4	1098.3
50°	1044.5	1035.7	1021.4	994.0	983.0
52.5°	945.7	933.6	913.8	887.4	881.9
55°	851.2	833.6	812.8	790.8	785.3
57.5°	750.1	742.5	717.2	699.6	693.0
60°	661.2	654.6	629.3	612.9	612.9
62.5°	581.0	571.1	549.2	538.2	538.2
65°	503.0	495.3	476.7	472.3	470.1
67.5°	436.0	426.1	413.0	411.9	417.4
70°	377.8	365.7	354.8	365.7	369.0
72.5°	322.9	315.2	305.3	319.6	326.2
75°	273.5	266.9	261.4	273.5	283.4
77.5°	228.4	221.9	221.9	235.0	243.8
80°	183.4	179.0	183.4	194.4	203.2
82.5°	140.6	137.3	142.8	153.8	159.3
85°	95.6	90.1	96.7	106.5	107.6
87.5°	45.0	43.9	48.3	54.9	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)