

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: P294200

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-FGW080-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5580.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

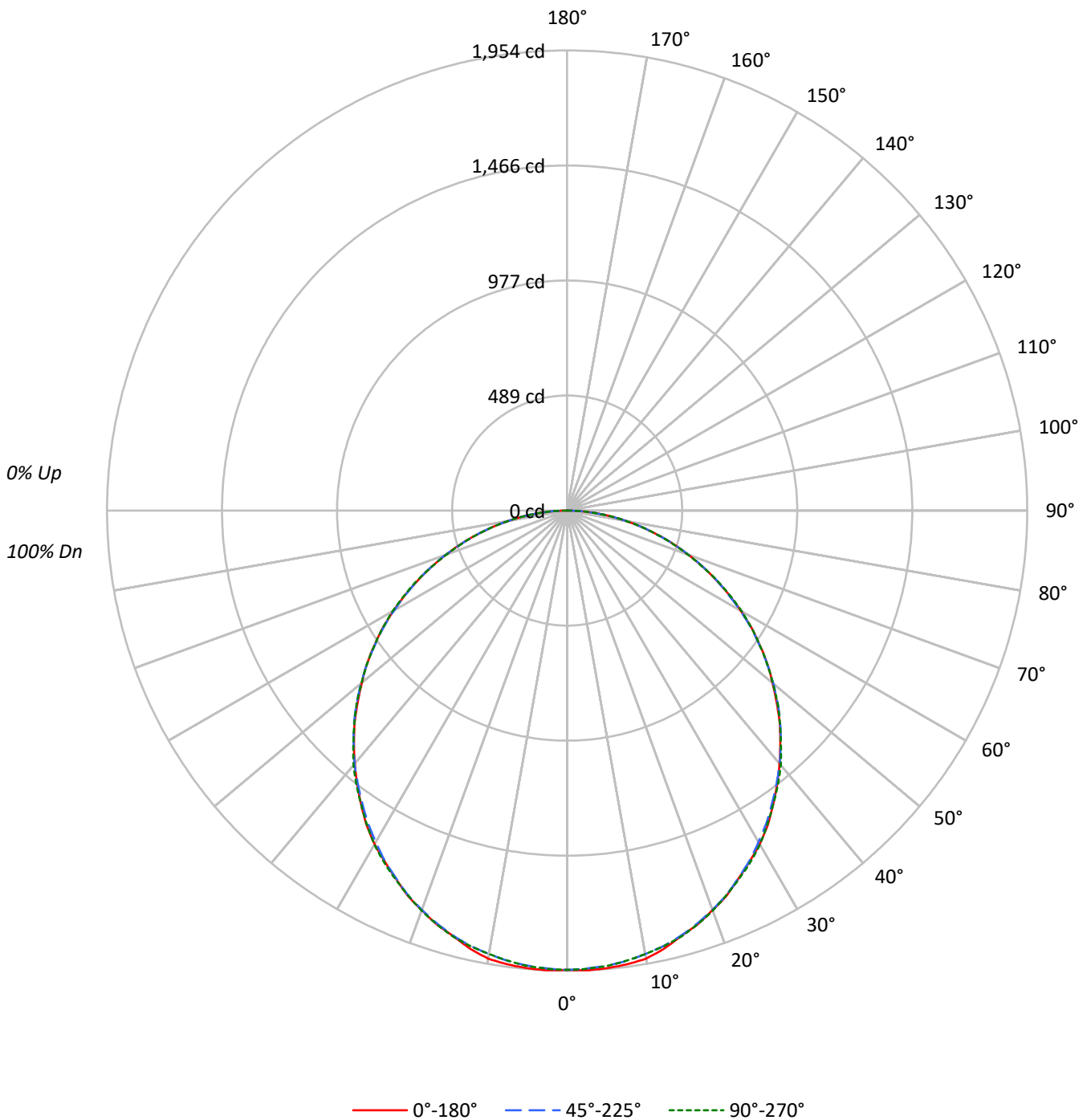
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2624	2624	2624
5°	2634	2620	2622
10°	2639	2612	2612
15°	2605	2603	2608
20°	2585	2583	2589
25°	2557	2555	2563
30°	2541	2525	2543
35°	2505	2492	2505
40°	2464	2466	2480
45°	2429	2436	2431
50°	2383	2391	2385
55°	2346	2340	2346
60°	2291	2284	2305
65°	2221	2229	2237
70°	2148	2159	2143
75°	2073	2073	2073
80°	1958	1958	1978
85°	1808	1828	1768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	3.3
10°-20°	527.2	9.4
20°-30°	794.4	14.2
30°-40°	951.5	17.1
40°-50°	984.9	17.7
50°-60°	893.1	16.0
60°-70°	692.4	12.4
70°-80°	421.1	7.5
80°-90°	131.0	2.3
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°	1506.0	27.0
0°-40°	2457.5	44.0
0°-60°	4335.5	77.7
0°-90°	5580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1950	1938	1940	1937	1941	186
15°	1870	1871	1869	1862	1873	529
25°	1723	1723	1721	1727	1727	795
35°	1525	1515	1517	1524	1525	954
45°	1276	1279	1280	1275	1278	983
55°	1000	995	998	1002	1000	894
65°	698	701	700	698	703	692
75°	399	397	399	397	399	421
85°	117	116	118	117	114	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.3	1950.3	1950.3	1950.3	1950.3
2.5°	1954.2	1946.3	1946.3	1943.7	1947.6
5°	1950.3	1938.4	1939.7	1937.1	1941.1
7.5°	1943.7	1927.9	1929.2	1926.6	1927.9
10°	1931.9	1913.4	1912.1	1910.8	1912.1
12.5°	1905.5	1895.0	1893.7	1891.1	1895.0
15°	1870.0	1871.3	1868.7	1862.1	1872.6
17.5°	1842.4	1841.0	1838.4	1831.8	1842.4
20°	1805.5	1806.8	1804.2	1801.6	1808.1
22.5°	1770.0	1766.0	1767.4	1766.0	1767.4
25°	1722.6	1722.6	1721.3	1726.6	1726.6
27.5°	1679.2	1673.9	1676.6	1681.8	1684.4
30°	1635.8	1622.6	1625.2	1630.5	1637.1
32.5°	1584.4	1571.3	1573.9	1579.2	1581.8
35°	1525.2	1514.7	1517.3	1523.9	1525.2
37.5°	1464.7	1458.1	1460.7	1466.0	1469.9
40°	1402.8	1400.2	1404.1	1402.8	1412.0
42.5°	1339.7	1338.3	1342.3	1342.3	1343.6
45°	1276.5	1279.1	1280.4	1275.2	1277.8
47.5°	1206.7	1208.1	1213.3	1210.7	1212.0
50°	1138.3	1137.0	1142.3	1143.6	1139.6
52.5°	1072.5	1065.9	1071.2	1073.8	1071.2
55°	1000.1	994.9	997.5	1001.5	1000.1
57.5°	929.1	923.8	925.1	931.7	929.1
60°	851.4	850.1	848.8	854.1	856.7
62.5°	775.1	773.8	771.2	776.4	779.1
65°	697.5	701.4	700.1	697.5	702.7
67.5°	623.8	627.7	623.8	621.1	621.1
70°	546.1	550.1	548.8	546.1	544.8
72.5°	473.8	473.8	471.1	469.8	471.1
75°	398.7	397.4	398.7	397.4	398.7
77.5°	325.0	326.4	326.4	326.4	325.0
80°	252.7	252.7	252.7	254.0	255.3
82.5°	185.6	181.6	185.6	182.9	184.2
85°	117.1	115.8	118.4	117.1	114.5
87.5°	52.6	54.0	54.0	55.3	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)