

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: P293135

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293135
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-LD5-64-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5214.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

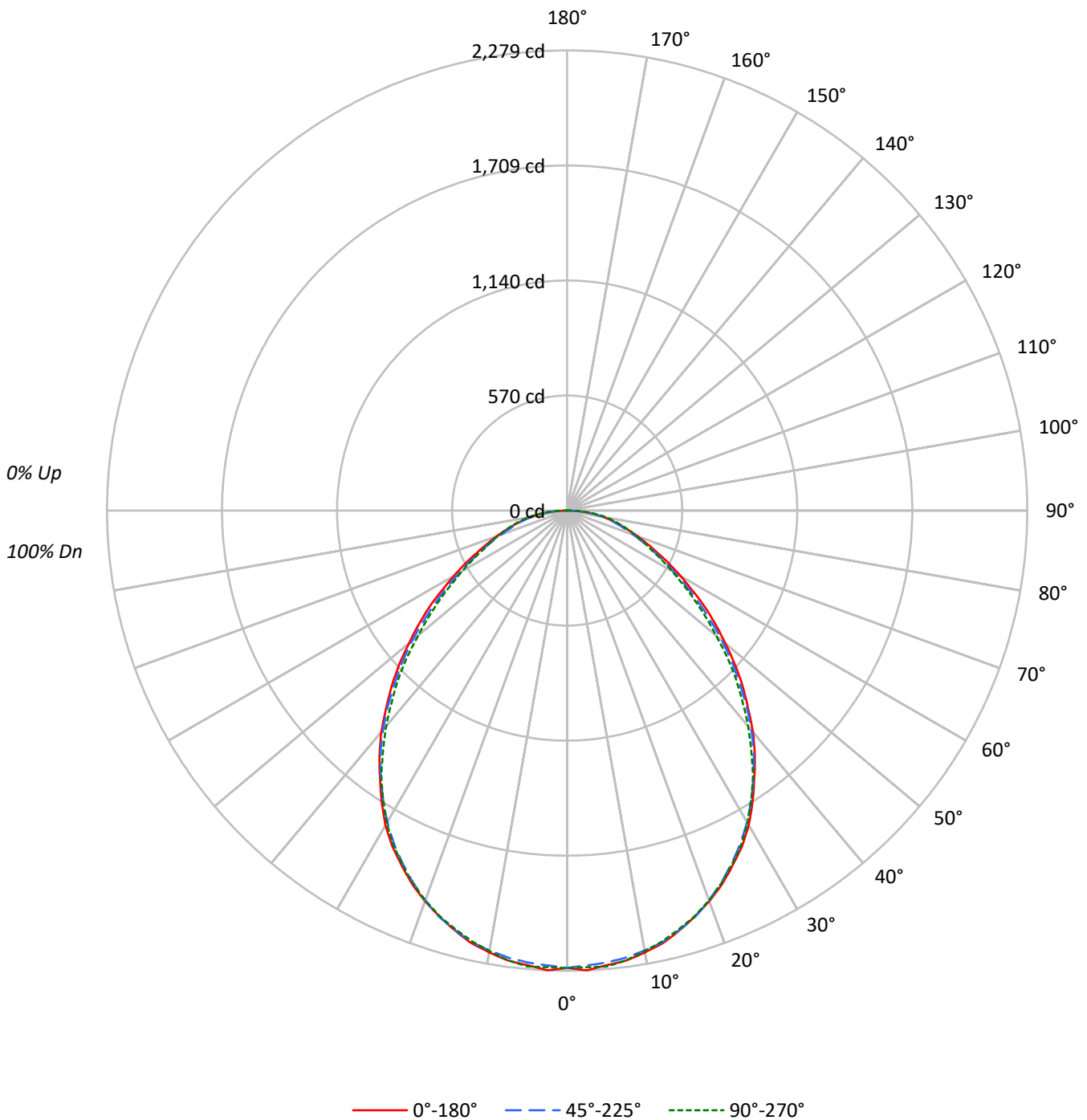
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3047	3047	3047
5°	3052	3034	3060
10°	3036	3022	3025
15°	2997	2995	2987
20°	2947	2941	2941
25°	2879	2863	2869
30°	2795	2767	2775
35°	2655	2643	2635
40°	2514	2491	2448
45°	2337	2296	2251
50°	2141	2093	2015
55°	1955	1867	1804
60°	1742	1658	1615
65°	1568	1486	1465
70°	1455	1367	1421
75°	1392	1331	1443
80°	1392	1392	1542
85°	1445	1460	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	4.1
10°-20°	605.3	11.6
20°-30°	888.4	17.0
30°-40°	1004.3	19.3
40°-50°	928.2	17.8
50°-60°	715.2	13.7
60°-70°	473.6	9.1
70°-80°	281.9	5.4
80°-90°	103.3	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°	1707.5	32.7
0°-40°	2711.9	52.0
0°-60°	4355.3	83.5
0°-90°	5214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2265	2265	2265	2265	2265	
5°	2260	2260	2247	2248	2266	215
15°	2152	2148	2150	2149	2144	607
25°	1939	1934	1928	1926	1932	893
35°	1616	1614	1609	1601	1604	1011
45°	1228	1220	1207	1185	1183	946
55°	834	816	796	774	769	743
65°	492	485	467	462	460	494
75°	268	261	256	268	278	286
85°	94	88	95	104	105	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2278.8	2267.0	2254.1	2254.1	2263.8
5°	2259.5	2259.5	2246.6	2247.6	2265.9
7.5°	2247.6	2241.2	2232.6	2232.6	2246.6
10°	2221.8	2216.4	2212.1	2210.0	2214.3
12.5°	2193.9	2185.3	2188.5	2185.3	2184.2
15°	2151.9	2147.6	2149.8	2148.7	2144.4
17.5°	2106.8	2104.6	2108.9	2101.4	2104.6
20°	2058.4	2051.9	2054.1	2049.8	2054.1
22.5°	2003.5	1999.2	1993.8	1988.5	1997.1
25°	1939.0	1933.6	1928.2	1926.1	1932.5
27.5°	1874.5	1865.9	1858.3	1856.2	1865.9
30°	1799.2	1789.5	1780.9	1778.7	1786.3
32.5°	1709.9	1707.8	1697.0	1692.7	1695.9
35°	1616.4	1614.2	1608.8	1601.3	1604.5
37.5°	1527.1	1526.0	1518.5	1505.6	1497.0
40°	1431.4	1423.9	1418.5	1400.2	1393.7
42.5°	1326.0	1323.8	1314.2	1293.7	1286.2
45°	1228.1	1219.5	1206.6	1185.1	1183.0
47.5°	1127.0	1115.2	1103.4	1076.5	1075.4
50°	1022.7	1014.1	1000.1	973.3	962.5
52.5°	925.9	914.1	894.8	868.9	863.6
55°	833.5	816.2	795.8	774.3	768.9
57.5°	734.5	727.0	702.3	685.0	678.6
60°	647.4	641.0	616.2	600.1	600.1
62.5°	568.9	559.2	537.7	527.0	527.0
65°	492.5	485.0	466.7	462.4	460.3
67.5°	426.9	417.3	404.4	403.3	408.7
70°	369.9	358.1	347.4	358.1	361.3
72.5°	316.2	308.6	299.0	312.9	319.4
75°	267.8	261.3	256.0	267.8	277.5
77.5°	223.7	217.2	217.2	230.1	238.7
80°	179.6	175.3	179.6	190.3	199.0
82.5°	137.7	134.4	139.8	150.6	155.9
85°	93.6	88.2	94.6	104.3	105.4
87.5°	44.1	43.0	47.3	53.8	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)