

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: P293009

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293009
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-L82765-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: 6041.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

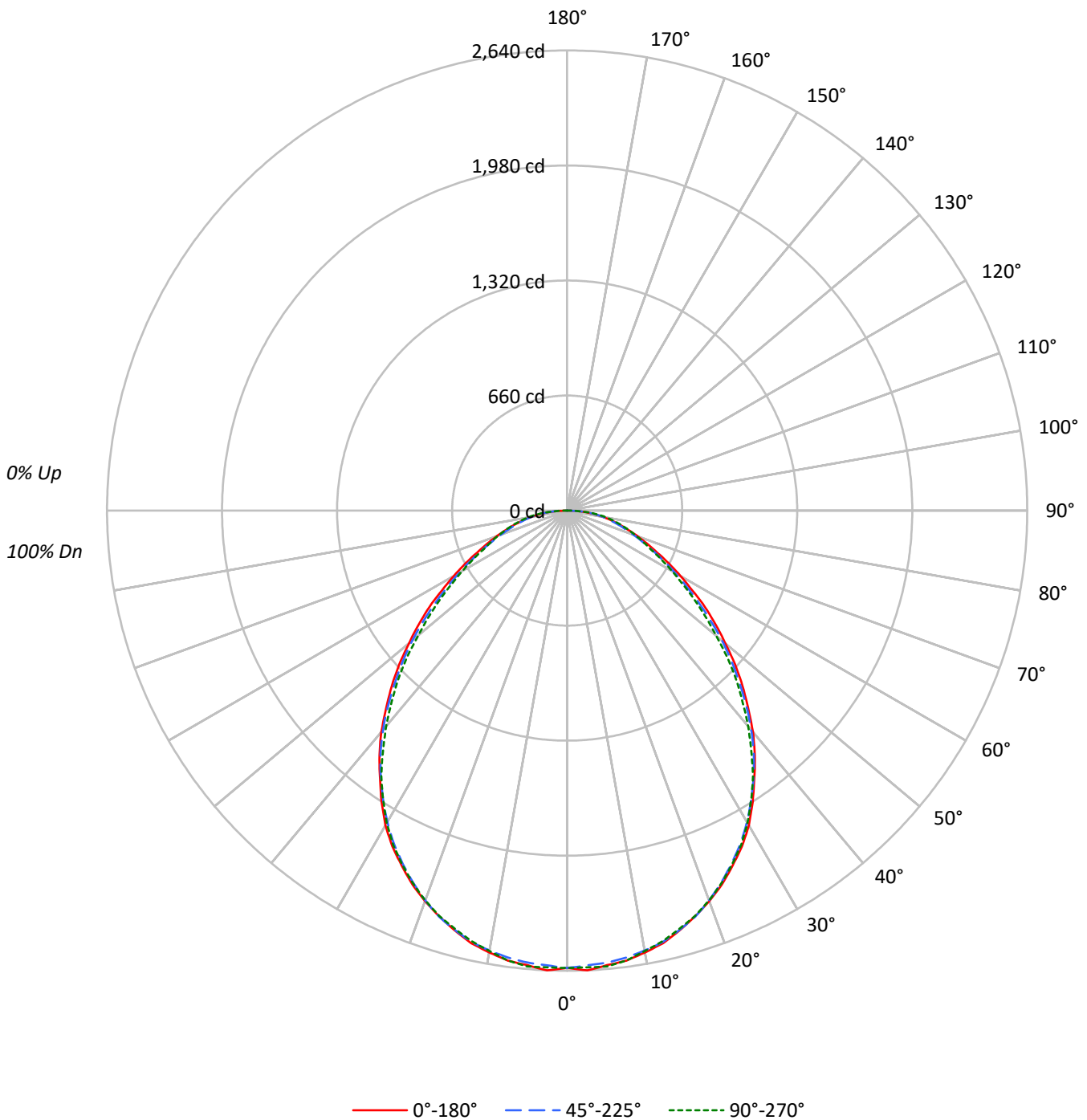
Input Watts (W): 45.663
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3531	3531	3531
5°	3536	3516	3546
10°	3517	3502	3505
15°	3473	3469	3461
20°	3415	3408	3408
25°	3335	3317	3324
30°	3239	3206	3215
35°	3076	3062	3053
40°	2913	2887	2836
45°	2708	2660	2608
50°	2480	2426	2334
55°	2265	2163	2090
60°	2019	1921	1871
65°	1817	1722	1698
70°	1686	1583	1647
75°	1613	1541	1671
80°	1612	1612	1786
85°	1673	1692	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	4.1
10°-20°	701.3	11.6
20°-30°	1029.3	17.0
30°-40°	1163.6	19.3
40°-50°	1075.4	17.8
50°-60°	828.6	13.7
60°-70°	548.7	9.1
70°-80°	326.6	5.4
80°-90°	119.6	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°	1978.4	32.7
0°-40°	3142.0	52.0
0°-60°	5046.1	83.5
0°-90°	6041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2618	2618	2603	2604	2625	249
15°	2493	2488	2491	2490	2484	703
25°	2246	2240	2234	2232	2239	1034
35°	1873	1870	1864	1855	1859	1172
45°	1423	1413	1398	1373	1371	1096
55°	966	946	922	897	891	861
65°	571	562	541	536	533	572
75°	310	303	296	310	322	331
85°	108	102	110	121	122	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.1	2624.1	2624.1	2624.1	2624.1
2.5°	2640.3	2626.6	2611.6	2611.6	2622.8
5°	2617.8	2617.8	2602.9	2604.1	2625.3
7.5°	2604.1	2596.7	2586.7	2586.7	2602.9
10°	2574.2	2568.0	2563.0	2560.5	2565.5
12.5°	2541.8	2531.9	2535.6	2531.9	2530.6
15°	2493.2	2488.3	2490.7	2489.5	2484.5
17.5°	2440.9	2438.4	2443.4	2434.7	2438.4
20°	2384.8	2377.4	2379.9	2374.9	2379.9
22.5°	2321.3	2316.3	2310.1	2303.8	2313.8
25°	2246.5	2240.3	2234.1	2231.6	2239.1
27.5°	2171.8	2161.8	2153.1	2150.6	2161.8
30°	2084.6	2073.3	2063.4	2060.9	2069.6
32.5°	1981.1	1978.6	1966.2	1961.2	1964.9
35°	1872.7	1870.2	1864.0	1855.3	1859.0
37.5°	1769.3	1768.1	1759.3	1744.4	1734.4
40°	1658.4	1649.7	1643.5	1622.3	1614.8
42.5°	1536.3	1533.8	1522.6	1498.9	1490.2
45°	1422.9	1413.0	1398.0	1373.1	1370.6
47.5°	1305.8	1292.1	1278.4	1247.2	1246.0
50°	1184.9	1175.0	1158.8	1127.6	1115.2
52.5°	1072.8	1059.1	1036.7	1006.8	1000.5
55°	965.6	945.7	922.0	897.1	890.9
57.5°	851.0	842.3	813.6	793.7	786.2
60°	750.1	742.6	714.0	695.3	695.3
62.5°	659.1	647.9	623.0	610.5	610.5
65°	570.7	561.9	540.8	535.8	533.3
67.5°	494.7	483.4	468.5	467.2	473.5
70°	428.6	414.9	402.5	414.9	418.7
72.5°	366.3	357.6	346.4	362.6	370.1
75°	310.3	302.8	296.5	310.3	321.5
77.5°	259.2	251.7	251.7	266.6	276.6
80°	208.1	203.1	208.1	220.5	230.5
82.5°	159.5	155.7	162.0	174.4	180.7
85°	108.4	102.2	109.6	120.9	122.1
87.5°	51.1	49.8	54.8	62.3	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)