

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: P293622

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4197.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

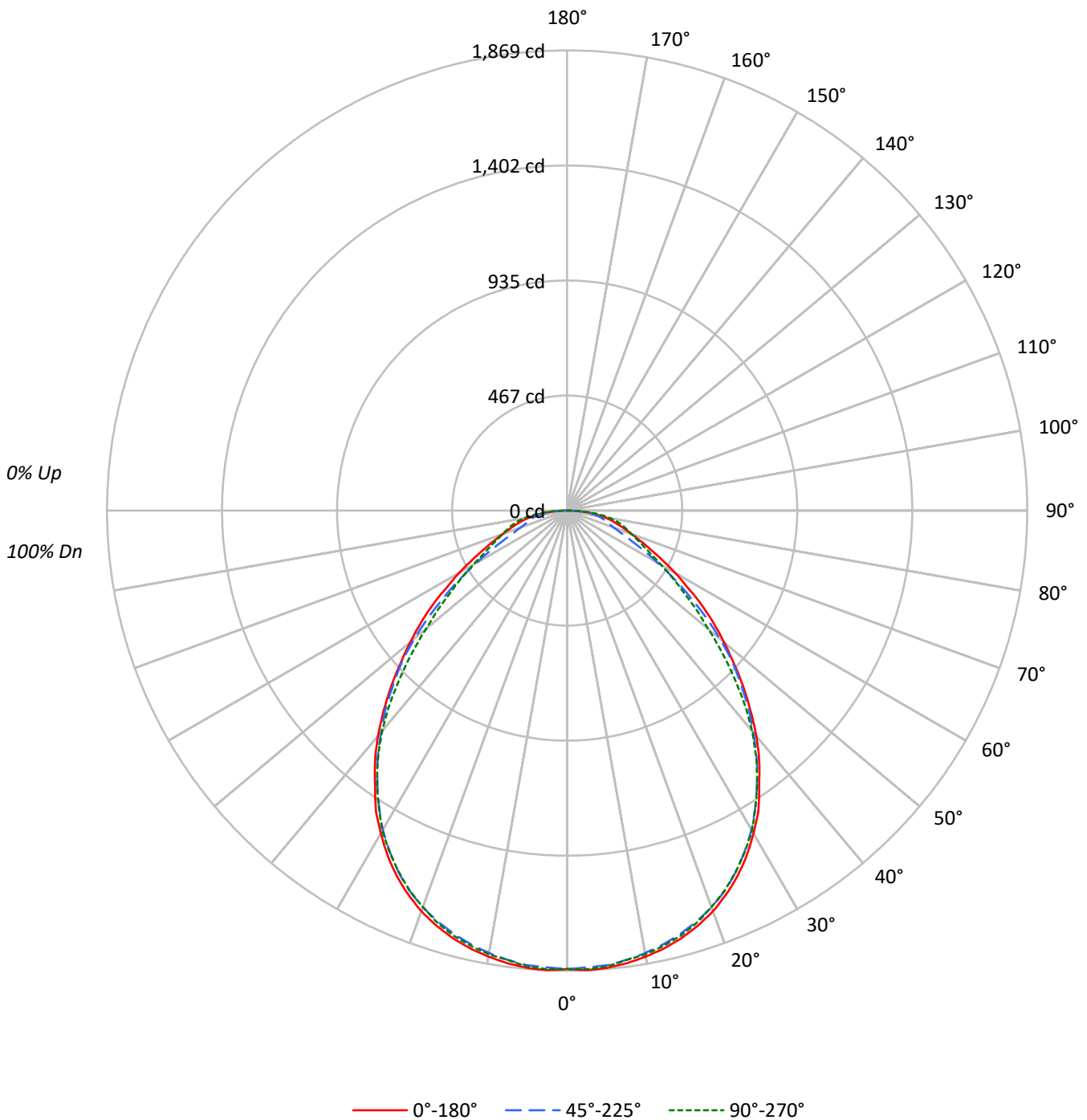
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2506	2506	2506
5°	2518	2504	2510
10°	2513	2493	2500
15°	2504	2478	2489
20°	2480	2455	2454
25°	2431	2405	2404
30°	2351	2327	2332
35°	2233	2208	2211
40°	2100	2064	2051
45°	1925	1899	1823
50°	1740	1692	1565
55°	1562	1422	1349
60°	1368	1144	1186
65°	1193	900	1092
70°	1092	786	1092
75°	1092	836	1203
80°	1185	985	1371
85°	1301	1112	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	4.2
10°-20°	503.2	12.0
20°-30°	746.2	17.8
30°-40°	841.8	20.1
40°-50°	762.4	18.2
50°-60°	550.0	13.1
60°-70°	328.4	7.8
70°-80°	203.0	4.8
80°-90°	85.5	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°	1425.8	34.0
0°-40°	2267.6	54.0
0°-60°	3580.1	85.3
0°-90°	4197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1864	1862	1854	1852	1858	177
15°	1797	1786	1779	1780	1787	507
25°	1638	1629	1620	1614	1619	752
35°	1360	1358	1344	1345	1346	851
45°	1012	1005	998	973	958	779
55°	666	645	606	576	575	594
65°	375	330	283	321	343	377
75°	210	182	161	200	232	224
85°	84	74	72	94	95	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1868.6	1863.5	1857.0	1860.9	1864.1
5°	1864.1	1861.5	1853.7	1851.8	1858.3
7.5°	1854.4	1847.9	1840.8	1844.0	1841.4
10°	1839.5	1833.6	1824.6	1825.2	1829.7
12.5°	1821.3	1814.2	1804.5	1807.0	1810.9
15°	1797.3	1786.3	1779.2	1779.8	1786.9
17.5°	1766.8	1758.4	1749.3	1751.3	1754.5
20°	1731.8	1727.3	1714.3	1710.4	1713.7
22.5°	1687.7	1679.3	1672.2	1670.2	1670.9
25°	1637.8	1628.7	1620.3	1614.5	1619.0
27.5°	1579.5	1571.7	1560.7	1558.7	1562.6
30°	1513.3	1507.5	1497.8	1495.2	1501.0
32.5°	1445.9	1436.2	1422.6	1422.6	1423.9
35°	1359.7	1357.7	1344.1	1344.7	1346.0
37.5°	1281.9	1272.8	1265.0	1257.2	1261.1
40°	1195.6	1185.2	1174.9	1169.7	1167.7
42.5°	1102.9	1095.1	1090.6	1071.8	1067.2
45°	1011.5	1005.0	997.9	973.2	958.3
47.5°	918.1	916.8	911.0	867.5	852.6
50°	831.2	829.3	808.5	762.5	747.6
52.5°	748.9	735.9	708.7	663.3	660.7
55°	665.9	645.1	606.2	576.4	575.1
57.5°	578.4	553.7	514.2	498.0	506.4
60°	508.3	470.7	425.3	427.3	440.9
62.5°	435.7	393.6	348.8	368.3	384.5
65°	374.8	330.0	282.7	321.0	343.0
67.5°	321.6	280.1	234.7	285.9	307.3
70°	277.5	243.8	199.7	253.5	277.5
72.5°	242.5	211.4	177.0	227.6	255.5
75°	210.1	182.2	160.8	200.4	231.5
77.5°	182.2	155.0	145.2	177.0	207.5
80°	153.0	128.4	127.1	154.3	177.0
82.5°	119.3	102.4	102.4	129.0	142.6
85°	84.3	73.9	72.0	94.0	95.3
87.5°	43.4	41.5	37.6	49.3	49.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)