

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: P293620

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293620
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

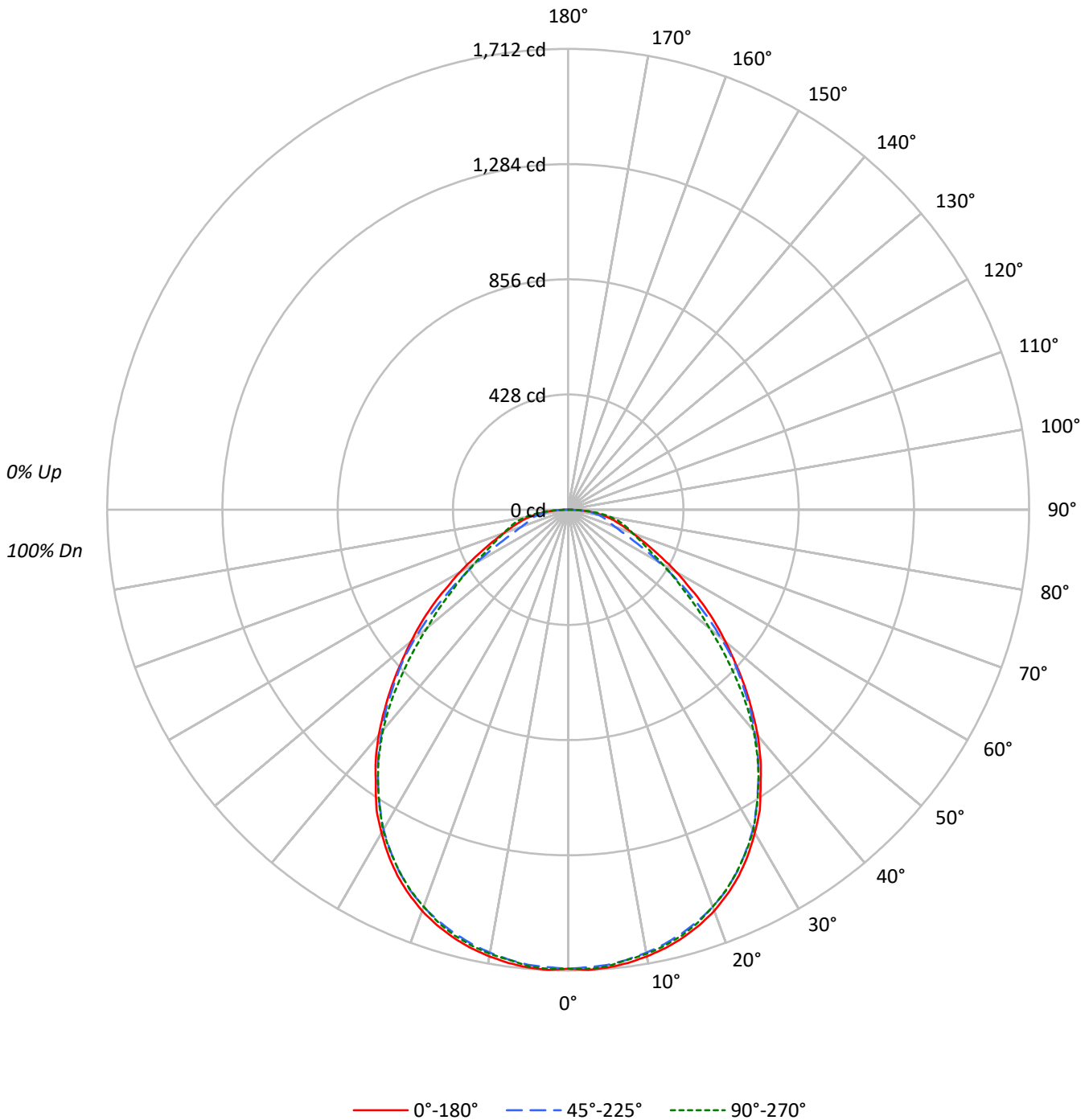
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2295	2295	2295
5°	2306	2293	2299
10°	2302	2283	2290
15°	2293	2270	2280
20°	2271	2248	2247
25°	2227	2203	2201
30°	2153	2131	2136
35°	2045	2022	2025
40°	1923	1890	1878
45°	1763	1739	1670
50°	1594	1550	1433
55°	1431	1303	1236
60°	1253	1048	1087
65°	1093	824	1000
70°	1000	720	1000
75°	1000	766	1102
80°	1086	902	1256
85°	1192	1017	1348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	4.2
10°-20°	460.9	12.0
20°-30°	683.4	17.8
30°-40°	771.0	20.1
40°-50°	698.3	18.2
50°-60°	503.8	13.1
60°-70°	300.8	7.8
70°-80°	185.9	4.8
80°-90°	78.3	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°	1305.9	34.0
0°-40°	2076.9	54.0
0°-60°	3279.0	85.3
0°-90°	3844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1707	1705	1698	1696	1702	162
15°	1646	1636	1630	1630	1637	464
25°	1500	1492	1484	1479	1483	689
35°	1245	1244	1231	1232	1233	779
45°	926	920	914	891	878	714
55°	610	591	555	528	527	544
65°	343	302	259	294	314	345
75°	192	167	147	184	212	205
85°	77	68	66	86	87	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1711.5	1706.7	1700.8	1704.4	1707.3
5°	1707.3	1704.9	1697.8	1696.0	1702.0
7.5°	1698.4	1692.5	1685.9	1688.9	1686.5
10°	1684.8	1679.4	1671.1	1671.7	1675.8
12.5°	1668.1	1661.6	1652.7	1655.1	1658.6
15°	1646.2	1636.1	1629.5	1630.1	1636.7
17.5°	1618.2	1610.5	1602.2	1604.0	1607.0
20°	1586.2	1582.0	1570.1	1566.6	1569.5
22.5°	1545.8	1538.1	1531.5	1529.8	1530.4
25°	1500.1	1491.8	1484.0	1478.7	1482.8
27.5°	1446.6	1439.5	1429.4	1427.6	1431.2
30°	1386.0	1380.7	1371.8	1369.4	1374.8
32.5°	1324.3	1315.4	1302.9	1302.9	1304.1
35°	1245.3	1243.5	1231.1	1231.6	1232.8
37.5°	1174.0	1165.7	1158.6	1151.5	1155.0
40°	1095.1	1085.6	1076.1	1071.3	1069.5
42.5°	1010.1	1003.0	998.9	981.6	977.5
45°	926.4	920.5	913.9	891.4	877.7
47.5°	840.9	839.7	834.4	794.6	780.9
50°	761.3	759.5	740.5	698.4	684.7
52.5°	685.9	674.0	649.1	607.5	605.1
55°	609.9	590.9	555.3	527.9	526.7
57.5°	529.7	507.1	470.9	456.1	463.8
60°	465.6	431.1	389.6	391.3	403.8
62.5°	399.1	360.5	319.5	337.3	352.2
65°	343.2	302.3	258.9	294.0	314.1
67.5°	294.5	256.5	215.0	261.9	281.5
70°	254.2	223.3	182.9	232.2	254.2
72.5°	222.1	193.6	162.1	208.4	234.0
75°	192.4	166.9	147.3	183.5	212.0
77.5°	166.9	141.9	133.0	162.1	190.0
80°	140.1	117.6	116.4	141.3	162.1
82.5°	109.3	93.8	93.8	118.2	130.6
85°	77.2	67.7	65.9	86.1	87.3
87.5°	39.8	38.0	34.4	45.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)