

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: P293811

Luminaire Tested: **24GR-LD5-48-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3780.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

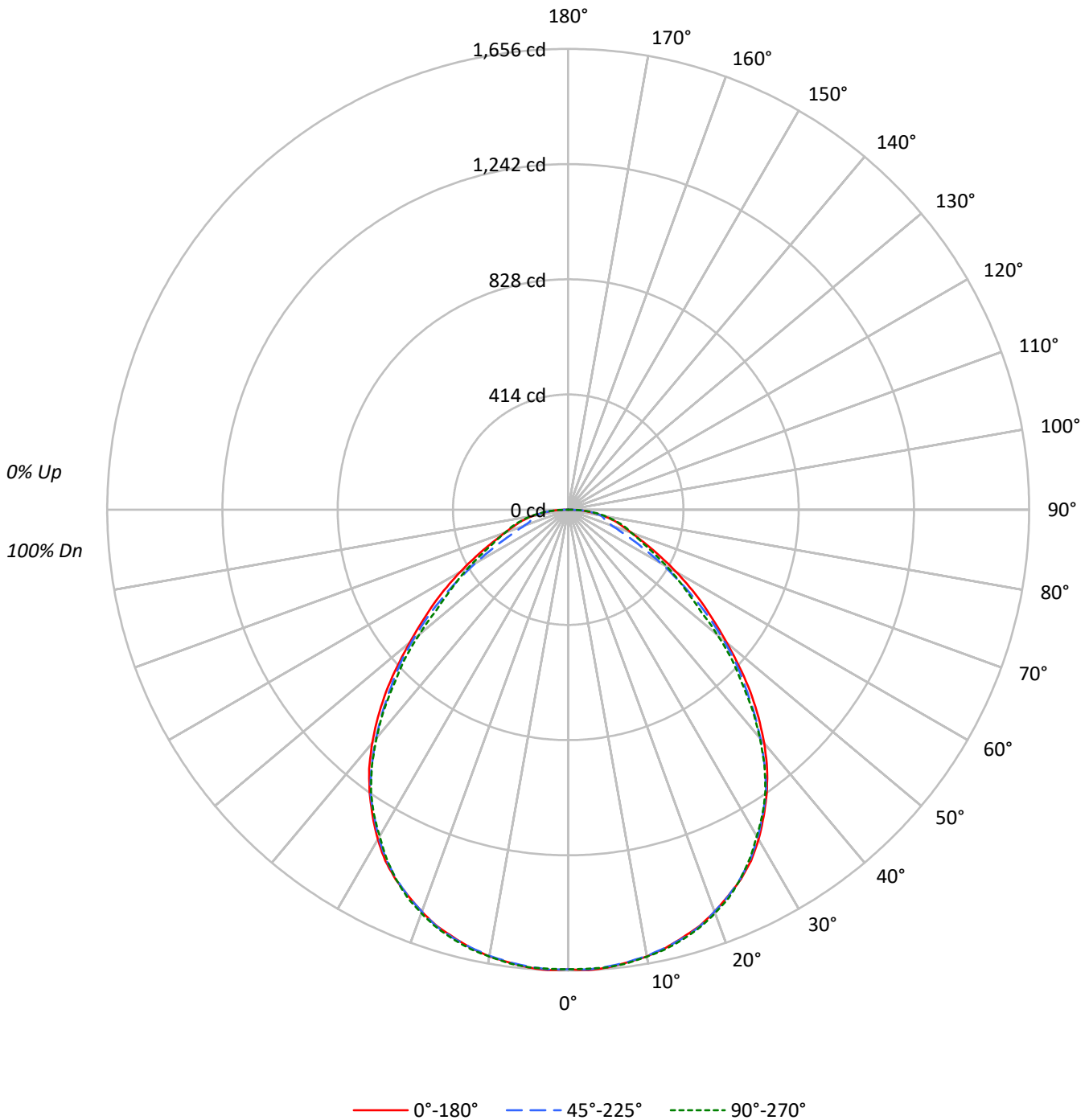
Input Watts (W): 33.584067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2222	2222	2222
5°	2230	2225	2229
10°	2227	2224	2228
15°	2216	2220	2226
20°	2201	2201	2210
25°	2176	2172	2174
30°	2126	2115	2104
35°	2042	2036	2028
40°	1923	1888	1880
45°	1759	1711	1680
50°	1555	1524	1465
55°	1383	1289	1240
60°	1204	1031	1106
65°	1040	800	978
70°	949	654	947
75°	957	705	1005
80°	996	918	1060
85°	1037	1093	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	4.1
10°-20°	449.4	11.9
20°-30°	672.6	17.8
30°-40°	768.6	20.3
40°-50°	694.9	18.4
50°-60°	499.9	13.2
60°-70°	289.8	7.7
70°-80°	171.9	4.5
80°-90°	76.1	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°	1278.7	33.8
0°-40°	2047.3	54.2
0°-60°	3242.1	85.8
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1651	1649	1648	1645	1650	157
15°	1591	1594	1594	1592	1598	449
25°	1466	1464	1463	1460	1464	674
35°	1243	1237	1240	1224	1235	775
45°	925	909	899	891	883	710
55°	590	578	550	535	528	528
65°	327	290	251	281	307	330
75°	184	154	136	168	193	194
85°	67	72	71	81	76	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.7	1651.7	1651.7	1651.7	1651.7
2.5°	1656.4	1650.5	1653.5	1651.7	1651.1
5°	1651.1	1648.8	1647.6	1645.2	1650.5
7.5°	1640.5	1638.8	1639.3	1639.9	1643.5
10°	1629.9	1627.0	1627.6	1628.7	1630.5
12.5°	1613.4	1611.6	1612.2	1613.4	1617.5
15°	1591.0	1593.9	1593.9	1592.2	1598.1
17.5°	1568.6	1568.0	1570.9	1565.6	1573.9
20°	1537.3	1537.9	1537.3	1537.9	1543.2
22.5°	1501.9	1504.9	1503.1	1503.1	1509.0
25°	1466.0	1464.2	1463.0	1460.1	1464.2
27.5°	1422.9	1419.4	1416.4	1410.5	1413.5
30°	1368.1	1368.7	1361.0	1355.7	1354.5
32.5°	1306.8	1306.8	1299.7	1295.6	1299.1
35°	1243.1	1237.2	1239.5	1224.2	1234.8
37.5°	1174.1	1164.6	1159.3	1154.0	1157.6
40°	1095.1	1082.7	1075.0	1064.4	1070.3
42.5°	1011.9	996.6	987.1	979.5	981.8
45°	924.6	908.7	899.3	891.0	882.8
47.5°	832.6	822.6	817.9	807.3	797.9
50°	743.0	739.5	728.3	719.4	700.0
52.5°	661.0	658.1	640.4	625.7	600.9
55°	589.7	578.5	549.6	535.4	528.4
57.5°	517.2	498.9	464.1	462.3	467.0
60°	447.6	425.2	383.3	392.7	411.0
62.5°	384.5	350.9	310.8	333.2	355.0
65°	326.7	290.1	251.2	280.7	307.2
67.5°	278.9	242.4	202.3	241.8	272.4
70°	241.2	204.0	166.3	211.7	240.6
72.5°	209.9	176.3	145.1	188.1	218.2
75°	184.0	153.9	135.6	167.5	193.4
77.5°	158.0	133.9	129.7	149.2	165.1
80°	128.6	117.3	118.5	130.9	136.8
82.5°	96.1	96.7	99.7	109.7	107.3
85°	67.2	72.5	70.8	81.4	76.1
87.5°	37.2	40.7	38.3	46.6	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)