

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: P293730

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293730
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-LD5-38-A125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

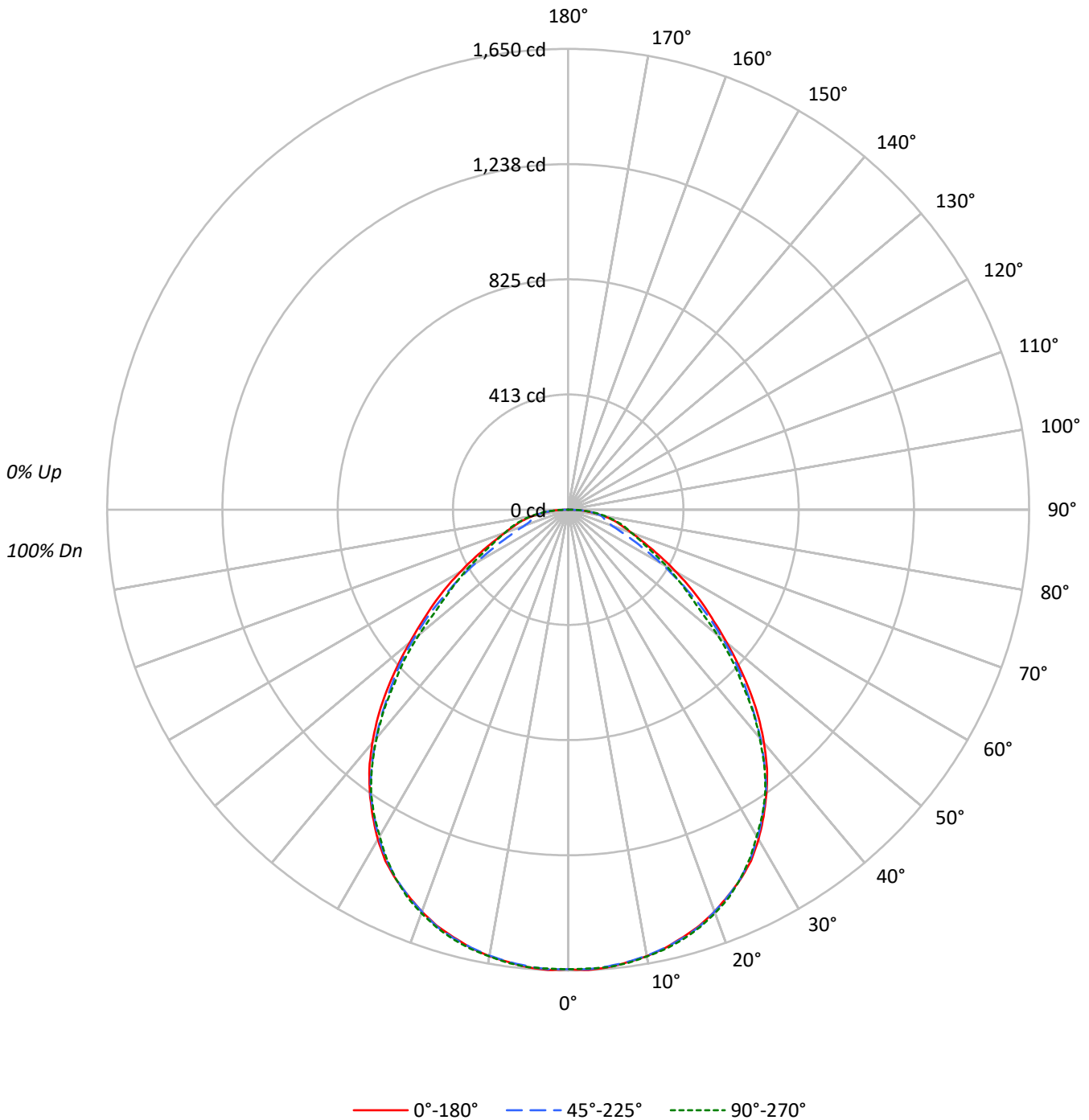
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2214	2214	2214
5°	2221	2217	2220
10°	2218	2215	2219
15°	2207	2211	2217
20°	2192	2192	2201
25°	2168	2163	2165
30°	2117	2106	2096
35°	2034	2028	2020
40°	1916	1881	1872
45°	1752	1704	1673
50°	1549	1518	1459
55°	1378	1284	1235
60°	1200	1027	1102
65°	1036	797	974
70°	945	651	943
75°	953	702	1002
80°	992	915	1056
85°	1034	1088	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	4.1
10°-20°	447.6	11.9
20°-30°	670.0	17.8
30°-40°	765.5	20.3
40°-50°	692.1	18.4
50°-60°	498.0	13.2
60°-70°	288.7	7.7
70°-80°	171.2	4.5
80°-90°	75.8	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°	1273.6	33.8
0°-40°	2039.1	54.2
0°-60°	3229.2	85.8
0°-90°	3765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1645	1642	1641	1639	1644	156
15°	1585	1588	1588	1586	1592	447
25°	1460	1458	1457	1454	1458	671
35°	1238	1232	1235	1219	1230	772
45°	921	905	896	888	879	708
55°	587	576	547	533	526	525
65°	325	289	250	280	306	329
75°	183	153	135	167	193	194
85°	67	72	70	81	76	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.2	1645.2	1645.2	1645.2	1645.2
2.5°	1649.9	1644.0	1646.9	1645.2	1644.6
5°	1644.6	1642.2	1641.1	1638.7	1644.0
7.5°	1634.0	1632.3	1632.8	1633.4	1637.0
10°	1623.4	1620.5	1621.1	1622.3	1624.0
12.5°	1607.0	1605.2	1605.8	1607.0	1611.1
15°	1584.7	1587.6	1587.6	1585.9	1591.7
17.5°	1562.4	1561.8	1564.7	1559.4	1567.6
20°	1531.2	1531.8	1531.2	1531.8	1537.1
22.5°	1496.0	1498.9	1497.2	1497.2	1503.0
25°	1460.2	1458.4	1457.2	1454.3	1458.4
27.5°	1417.3	1413.8	1410.8	1404.9	1407.9
30°	1362.7	1363.2	1355.6	1350.3	1349.1
32.5°	1301.6	1301.6	1294.5	1290.4	1293.9
35°	1238.1	1232.3	1234.6	1219.3	1229.9
37.5°	1169.4	1160.0	1154.7	1149.4	1153.0
40°	1090.7	1078.4	1070.7	1060.2	1066.0
42.5°	1007.9	992.6	983.2	975.6	977.9
45°	921.0	905.1	895.7	887.5	879.3
47.5°	829.3	819.4	814.7	804.1	794.7
50°	740.1	736.5	725.4	716.6	697.2
52.5°	658.4	655.5	637.9	623.2	598.5
55°	587.4	576.2	547.4	533.3	526.3
57.5°	515.1	496.9	462.2	460.5	465.2
60°	445.8	423.5	381.8	391.2	409.4
62.5°	383.0	349.5	309.5	331.9	353.6
65°	325.4	289.0	250.2	279.6	306.0
67.5°	277.8	241.4	201.5	240.8	271.4
70°	240.2	203.2	165.6	210.9	239.6
72.5°	209.1	175.6	144.5	187.4	217.3
75°	183.3	153.3	135.1	166.8	192.7
77.5°	157.4	133.3	129.2	148.6	164.5
80°	128.0	116.9	118.1	130.4	136.3
82.5°	95.7	96.3	99.3	109.2	106.9
85°	67.0	72.2	70.5	81.1	75.8
87.5°	37.0	40.5	38.2	46.4	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)