

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: P219194

Luminaire Tested: **24GR-LD5-56-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5208.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

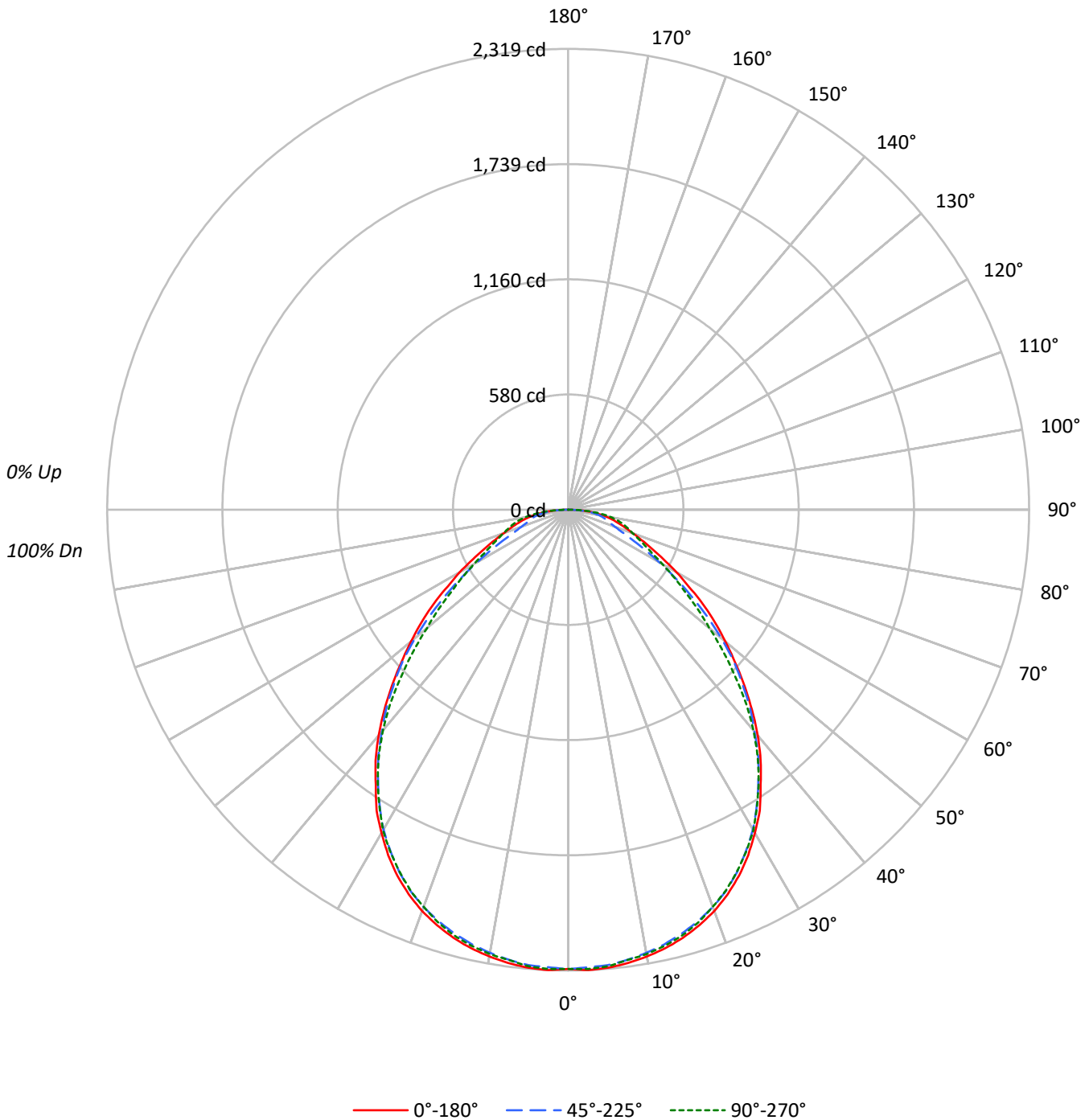
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219194

CATALOG NUMBER: 24GR-LD5-56-A125-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219194

CATALOG NUMBER: 24GR-LD5-56-A125-UNV-L950-CD1-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3540	3540	3540
5°	3557	3537	3546
10°	3550	3522	3532
15°	3537	3501	3517
20°	3503	3468	3467
25°	3435	3398	3396
30°	3322	3288	3295
35°	3155	3119	3124
40°	2967	2915	2898
45°	2719	2682	2576
50°	2458	2391	2211
55°	2207	2009	1906
60°	1933	1617	1676
65°	1686	1271	1543
70°	1542	1110	1542
75°	1543	1181	1700
80°	1675	1391	1938
85°	1838	1571	2079



TEST NUMBER: P219194

CATALOG NUMBER: 24GR-LD5-56-A125-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	4.2
10°-20°	624.6	12.0
20°-30°	926.1	17.8
30°-40°	1044.7	20.1
40°-50°	946.2	18.2
50°-60°	682.7	13.1
60°-70°	407.6	7.8
70°-80°	251.9	4.8
80°-90°	106.1	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°	1769.5	34.0
0°-40°	2814.2	54.0
0°-60°	4443.1	85.3
0°-90°	5208.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5208.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2314	2310	2301	2298	2306	220
15°	2231	2217	2208	2209	2218	629
25°	2033	2021	2011	2004	2009	934
35°	1687	1685	1668	1669	1671	1056
45°	1255	1247	1238	1208	1189	967
55°	826	801	752	715	714	738
65°	465	410	351	398	426	468
75°	261	226	200	249	287	278
85°	105	92	89	117	118	109
90°	0	0	0	0	0	



TEST NUMBER: P219194

CATALOG NUMBER: 24GR-LD5-56-A125-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2319.1	2312.7	2304.7	2309.5	2313.5
5°	2313.5	2310.3	2300.6	2298.2	2306.2
7.5°	2301.4	2293.4	2284.6	2288.6	2285.3
10°	2282.9	2275.6	2264.4	2265.2	2270.8
12.5°	2260.3	2251.5	2239.4	2242.7	2247.5
15°	2230.6	2216.9	2208.1	2208.8	2217.8
17.5°	2192.8	2182.4	2171.1	2173.4	2177.5
20°	2149.3	2143.7	2127.6	2122.8	2126.8
22.5°	2094.6	2084.2	2075.3	2072.9	2073.7
25°	2032.7	2021.4	2010.9	2003.7	2009.3
27.5°	1960.2	1950.6	1936.9	1934.5	1939.3
30°	1878.1	1870.9	1858.9	1855.6	1862.9
32.5°	1794.4	1782.4	1765.5	1765.5	1767.1
35°	1687.4	1685.0	1668.1	1668.9	1670.6
37.5°	1590.9	1579.6	1569.9	1560.3	1565.1
40°	1483.8	1471.0	1458.1	1451.6	1449.3
42.5°	1368.8	1359.1	1353.5	1330.1	1324.5
45°	1255.3	1247.2	1238.4	1207.8	1189.4
47.5°	1139.4	1137.9	1130.6	1076.7	1058.1
50°	1031.6	1029.2	1003.5	946.3	927.8
52.5°	929.4	913.4	879.5	823.2	820.0
55°	826.5	800.7	752.4	715.4	713.8
57.5°	717.8	687.2	638.1	618.0	628.4
60°	630.9	584.2	527.9	530.3	547.2
62.5°	540.7	488.5	432.9	457.1	477.2
65°	465.1	409.6	350.8	398.3	425.7
67.5°	399.1	347.6	291.3	354.9	381.4
70°	344.4	302.6	247.9	314.7	344.4
72.5°	300.9	262.4	219.7	282.5	317.0
75°	260.7	226.1	199.6	248.6	287.3
77.5°	226.1	192.3	180.3	219.7	257.5
80°	189.9	159.3	157.7	191.6	219.7
82.5°	148.1	127.1	127.1	160.2	177.0
85°	104.6	91.7	89.4	116.7	118.3
87.5°	53.9	51.5	46.7	61.2	61.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)