

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: P219164

Luminaire Tested: **24GR-LD5-56-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219164
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4784.2 lumens
Efficiency: N/A
Efficacy: 105.9 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

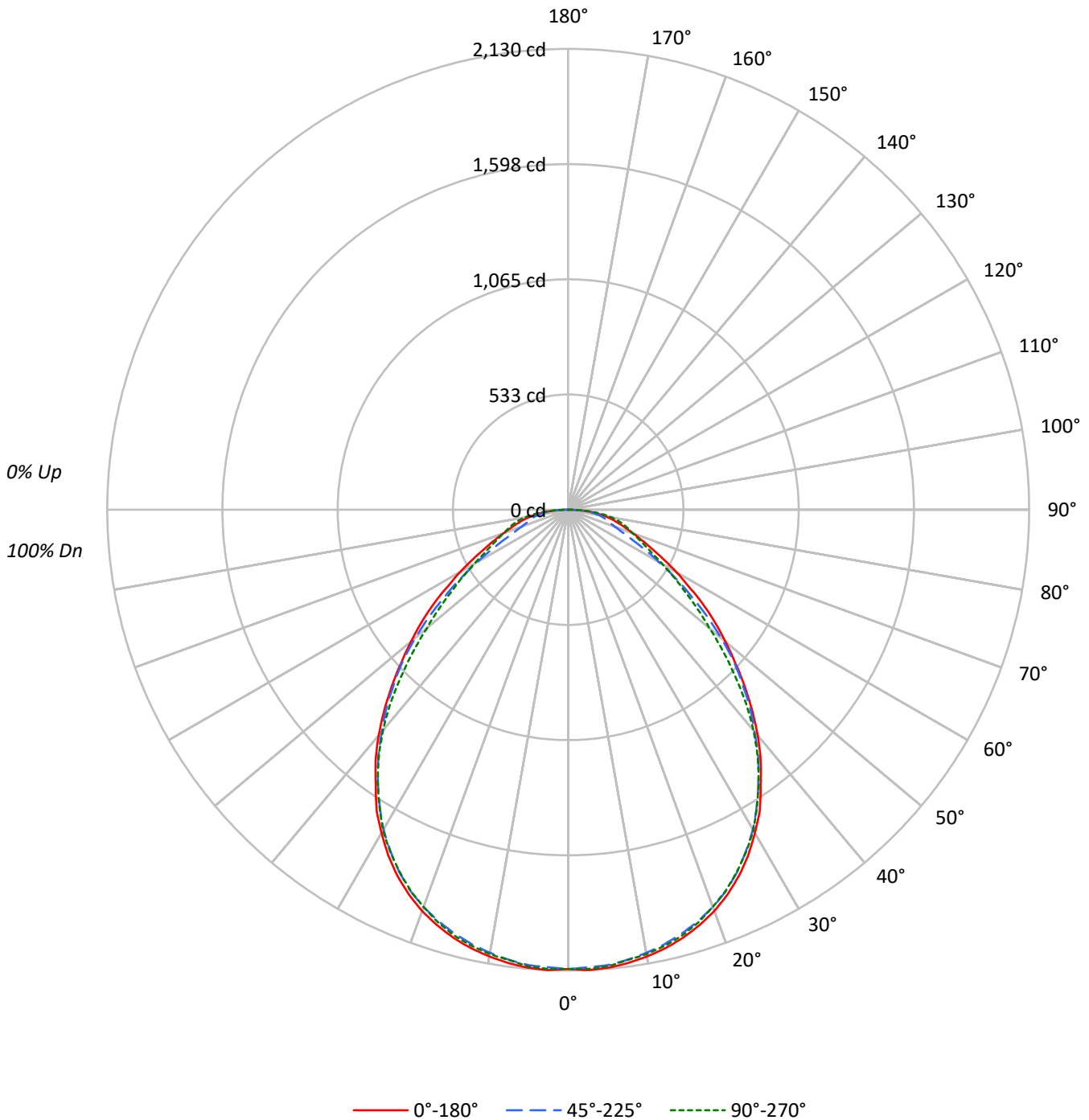
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3251	3251	3251
5°	3267	3249	3257
10°	3261	3235	3244
15°	3249	3216	3230
20°	3218	3185	3184
25°	3155	3121	3119
30°	3051	3019	3026
35°	2898	2865	2869
40°	2725	2678	2661
45°	2497	2464	2366
50°	2258	2196	2031
55°	2027	1845	1751
60°	1775	1485	1540
65°	1548	1168	1417
70°	1417	1019	1417
75°	1417	1085	1561
80°	1538	1277	1780
85°	1687	1441	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	4.2
10°-20°	573.7	12.0
20°-30°	850.6	17.8
30°-40°	959.6	20.1
40°-50°	869.1	18.2
50°-60°	627.0	13.1
60°-70°	374.4	7.8
70°-80°	231.4	4.8
80°-90°	97.5	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°	1625.3	34.0
0°-40°	2584.9	54.0
0°-60°	4081.0	85.3
0°-90°	4784.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4784.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2125	2122	2113	2111	2118	202
15°	2049	2036	2028	2029	2037	578
25°	1867	1857	1847	1840	1846	858
35°	1550	1548	1532	1533	1534	970
45°	1153	1146	1138	1109	1092	889
55°	759	735	691	657	656	678
65°	427	376	322	366	391	430
75°	239	208	183	228	264	256
85°	96	84	82	107	109	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.7	2122.7	2122.7	2122.7	2122.7
2.5°	2130.1	2124.2	2116.8	2121.3	2124.9
5°	2124.9	2121.9	2113.1	2110.9	2118.3
7.5°	2113.9	2106.5	2098.3	2102.0	2099.1
10°	2096.9	2090.2	2079.9	2080.6	2085.7
12.5°	2076.1	2068.0	2056.9	2059.9	2064.3
15°	2048.8	2036.3	2028.1	2028.9	2037.0
17.5°	2014.1	2004.5	1994.1	1996.3	2000.0
20°	1974.1	1969.0	1954.2	1949.7	1953.5
22.5°	1923.9	1914.3	1906.1	1903.9	1904.7
25°	1867.0	1856.7	1847.0	1840.4	1845.5
27.5°	1800.5	1791.6	1779.0	1776.8	1781.3
30°	1725.1	1718.4	1707.3	1704.4	1711.0
32.5°	1648.2	1637.1	1621.6	1621.6	1623.1
35°	1549.9	1547.7	1532.2	1532.9	1534.4
37.5°	1461.2	1450.9	1442.0	1433.1	1437.6
40°	1362.9	1351.1	1339.3	1333.3	1331.1
42.5°	1257.2	1248.4	1243.2	1221.7	1216.6
45°	1153.0	1145.6	1137.5	1109.4	1092.4
47.5°	1046.6	1045.1	1038.4	988.9	971.9
50°	947.5	945.3	921.7	869.2	852.2
52.5°	853.7	838.9	807.8	756.1	753.2
55°	759.0	735.4	691.0	657.0	655.6
57.5°	659.3	631.2	586.1	567.6	577.2
60°	579.4	536.6	484.8	487.0	502.6
62.5°	496.7	448.6	397.6	419.8	438.3
65°	427.2	376.2	322.2	365.8	391.0
67.5°	366.6	319.3	267.6	326.0	350.4
70°	316.4	277.9	227.6	289.0	316.4
72.5°	276.4	241.0	201.8	259.4	291.2
75°	239.4	207.7	183.3	228.4	263.8
77.5°	207.7	176.6	165.6	201.8	236.6
80°	174.4	146.4	144.8	176.0	201.8
82.5°	136.0	116.8	116.8	147.0	162.6
85°	96.0	84.2	82.0	107.2	108.6
87.5°	49.6	47.3	42.8	56.2	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)