

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: P219193

Luminaire Tested: **24GR-LD5-48-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219193
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-LD5-48-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: 4469.8 lumens
Efficiency: N/A
Efficacy: 119.2 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

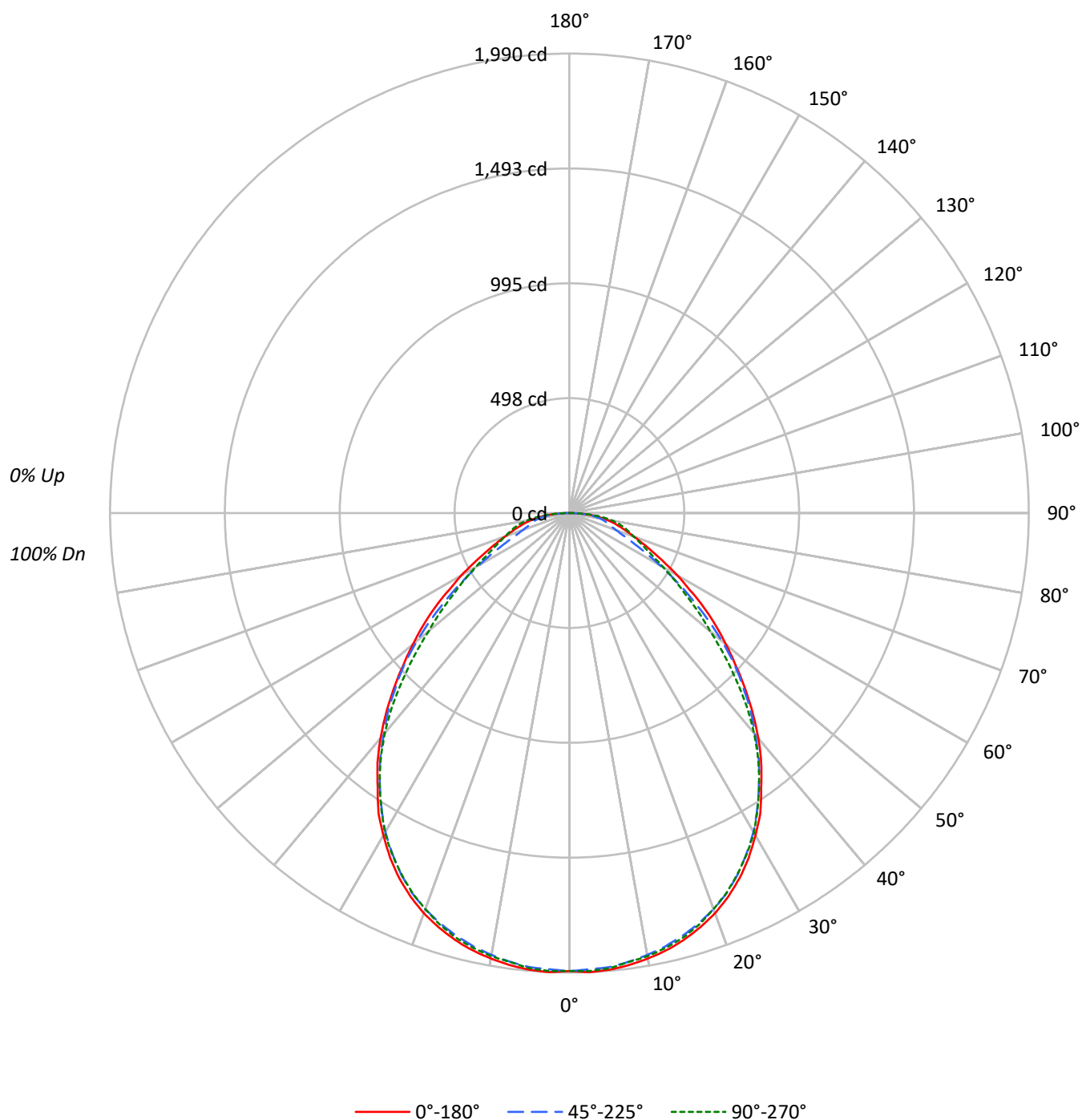
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3038	3038	3038
5°	3052	3035	3043
10°	3047	3022	3031
15°	3035	3004	3018
20°	3006	2976	2975
25°	2948	2916	2914
30°	2850	2821	2827
35°	2708	2677	2680
40°	2546	2502	2487
45°	2333	2302	2211
50°	2109	2052	1897
55°	1894	1724	1636
60°	1658	1388	1439
65°	1446	1091	1324
70°	1324	953	1324
75°	1324	1014	1459
80°	1438	1193	1664
85°	1576	1346	1784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	4.2
10°-20°	536.0	12.0
20°-30°	794.7	17.8
30°-40°	896.5	20.1
40°-50°	812.0	18.2
50°-60°	585.8	13.1
60°-70°	349.8	7.8
70°-80°	216.2	4.8
80°-90°	91.1	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°	1518.5	34.0
0°-40°	2415.0	54.0
0°-60°	3812.8	85.3
0°-90°	4469.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4469.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1985	1982	1974	1972	1979	189
15°	1914	1902	1895	1896	1903	540
25°	1744	1735	1726	1719	1724	801
35°	1448	1446	1432	1432	1434	906
45°	1077	1070	1063	1036	1021	830
55°	709	687	646	614	612	633
65°	399	351	301	342	365	401
75°	224	194	171	213	246	239
85°	90	79	77	100	102	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1990.1	1984.6	1977.7	1981.8	1985.3
5°	1985.3	1982.5	1974.2	1972.2	1979.1
7.5°	1975.0	1968.1	1960.4	1963.9	1961.1
10°	1959.0	1952.9	1943.1	1943.9	1948.7
12.5°	1939.8	1932.1	1921.7	1924.6	1928.7
15°	1914.2	1902.4	1894.8	1895.5	1903.1
17.5°	1881.7	1872.7	1863.0	1865.1	1868.6
20°	1844.4	1839.6	1825.7	1821.6	1825.1
22.5°	1797.4	1788.5	1780.9	1778.8	1779.5
25°	1744.3	1734.6	1725.6	1719.4	1724.3
27.5°	1682.1	1673.9	1662.1	1660.0	1664.2
30°	1611.7	1605.5	1595.1	1592.4	1598.6
32.5°	1539.9	1529.5	1515.1	1515.1	1516.4
35°	1448.1	1446.0	1431.5	1432.2	1433.5
37.5°	1365.2	1355.5	1347.3	1339.0	1343.1
40°	1273.4	1262.3	1251.2	1245.7	1243.7
42.5°	1174.6	1166.3	1161.5	1141.4	1136.6
45°	1077.3	1070.3	1062.7	1036.5	1020.6
47.5°	977.8	976.4	970.2	923.9	908.1
50°	885.2	883.2	861.1	812.1	796.2
52.5°	797.5	783.8	754.8	706.4	703.6
55°	709.2	687.1	645.6	613.9	612.5
57.5°	616.0	589.7	547.6	530.3	539.3
60°	541.4	501.3	453.0	455.1	469.6
62.5°	464.0	419.1	371.5	392.2	409.5
65°	399.1	351.4	301.0	341.8	365.3
67.5°	342.5	298.3	250.0	304.5	327.3
70°	295.6	259.6	212.7	270.0	295.6
72.5°	258.3	225.1	188.6	242.3	272.1
75°	223.8	194.0	171.3	213.4	246.5
77.5°	194.0	165.1	154.7	188.6	220.9
80°	163.0	136.7	135.3	164.3	188.6
82.5°	127.0	109.1	109.1	137.4	151.9
85°	89.7	78.7	76.6	100.1	101.5
87.5°	46.2	44.2	40.0	52.5	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)