

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: P219254

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219254
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-A19/156-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5060.1 lumens
Efficiency: N/A
Efficacy: 112.0 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

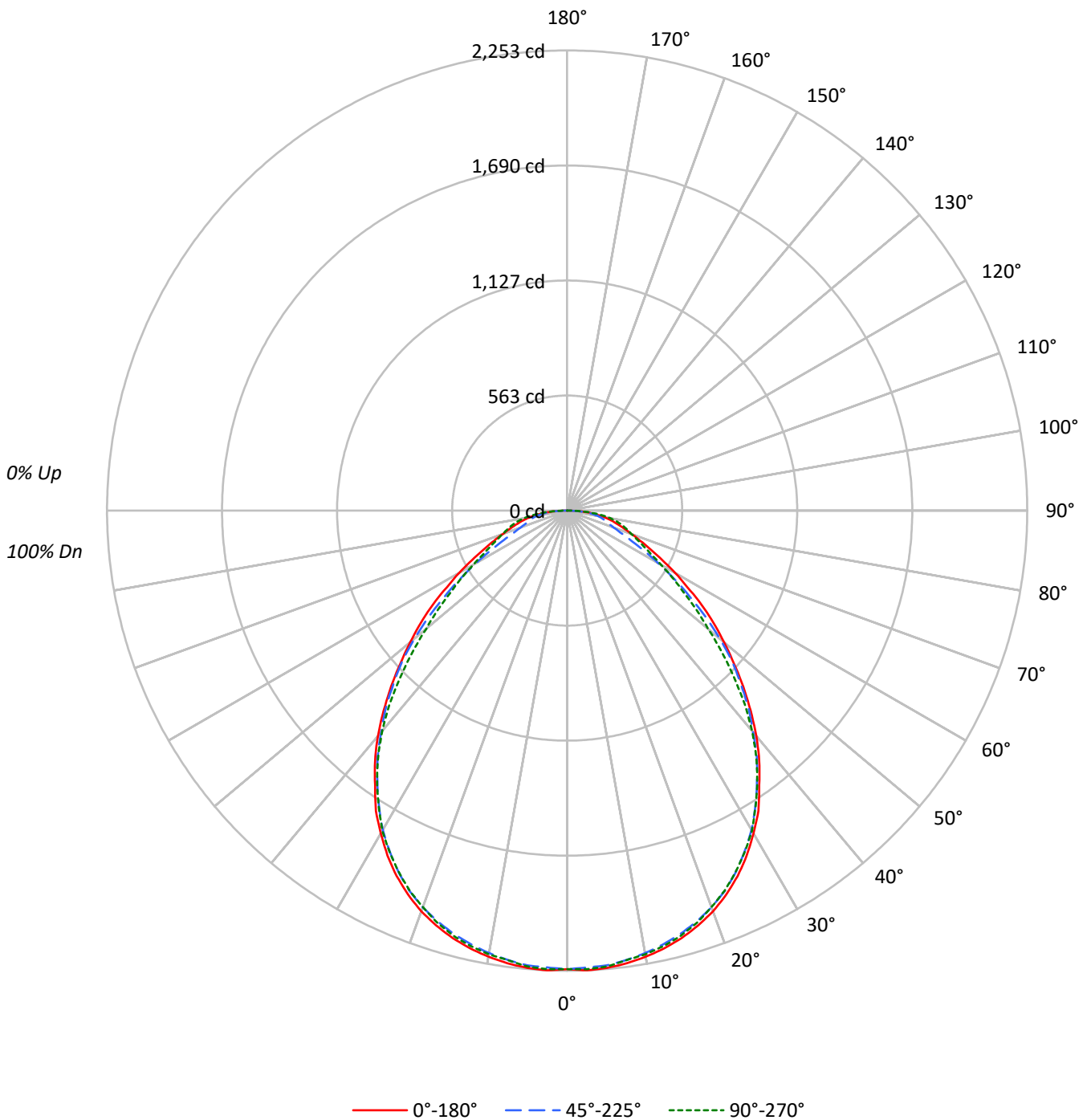
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3439	3439	3439
5°	3455	3436	3445
10°	3449	3421	3431
15°	3436	3401	3416
20°	3403	3369	3368
25°	3337	3301	3299
30°	3227	3194	3201
35°	3065	3030	3034
40°	2882	2832	2815
45°	2641	2606	2502
50°	2388	2323	2148
55°	2144	1952	1852
60°	1877	1571	1628
65°	1637	1235	1499
70°	1498	1078	1498
75°	1499	1147	1652
80°	1627	1351	1882
85°	1785	1525	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	4.2
10°-20°	606.7	12.0
20°-30°	899.7	17.8
30°-40°	1014.9	20.1
40°-50°	919.2	18.2
50°-60°	663.2	13.1
60°-70°	396.0	7.8
70°-80°	244.7	4.8
80°-90°	103.1	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°	1719.0	34.0
0°-40°	2733.9	54.0
0°-60°	4316.3	85.3
0°-90°	5060.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5060.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2247	2244	2235	2233	2240	214
15°	2167	2154	2145	2146	2154	611
25°	1975	1964	1954	1946	1952	907
35°	1639	1637	1620	1621	1623	1026
45°	1220	1212	1203	1173	1155	940
55°	803	778	731	695	693	717
65°	452	398	341	387	414	455
75°	253	220	194	242	279	271
85°	102	89	87	113	115	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2245.1	2245.1	2245.1	2245.1	2245.1
2.5°	2252.9	2246.7	2238.9	2243.5	2247.4
5°	2247.4	2244.3	2235.0	2232.6	2240.4
7.5°	2235.7	2227.9	2219.3	2223.2	2220.1
10°	2217.8	2210.7	2199.7	2200.6	2206.0
12.5°	2195.8	2187.3	2175.5	2178.6	2183.4
15°	2166.9	2153.6	2145.1	2145.8	2154.4
17.5°	2130.2	2120.0	2109.1	2111.4	2115.3
20°	2088.0	2082.5	2066.9	2062.2	2066.1
22.5°	2034.9	2024.7	2016.0	2013.7	2014.5
25°	1974.6	1963.7	1953.5	1946.5	1952.0
27.5°	1904.3	1894.9	1881.6	1879.2	1884.0
30°	1824.6	1817.5	1805.8	1802.6	1809.7
32.5°	1743.2	1731.5	1715.1	1715.1	1716.6
35°	1639.3	1636.9	1620.5	1621.3	1622.9
37.5°	1545.5	1534.5	1525.2	1515.8	1520.4
40°	1441.5	1429.0	1416.5	1410.2	1407.9
42.5°	1329.7	1320.3	1314.9	1292.2	1286.7
45°	1219.5	1211.7	1203.0	1173.4	1155.3
47.5°	1106.9	1105.4	1098.3	1046.0	1027.9
50°	1002.2	999.8	974.8	919.3	901.4
52.5°	902.9	887.2	854.4	799.7	796.6
55°	802.8	777.8	730.9	695.0	693.4
57.5°	697.3	667.6	619.9	600.3	610.5
60°	612.9	567.6	512.8	515.2	531.5
62.5°	525.3	474.5	420.6	444.0	463.6
65°	451.8	397.9	340.8	386.9	413.5
67.5°	387.8	337.7	283.0	344.7	370.6
70°	334.6	293.9	240.8	305.7	334.6
72.5°	292.4	254.8	213.4	274.4	308.0
75°	253.3	219.7	193.8	241.5	279.1
77.5°	219.7	186.8	175.1	213.4	250.2
80°	184.5	154.8	153.2	186.0	213.4
82.5°	143.9	123.5	123.5	155.5	172.0
85°	101.6	89.1	86.8	113.4	114.9
87.5°	52.4	50.1	45.3	59.4	59.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)