

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: P213960

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A19/156-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4310.7 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

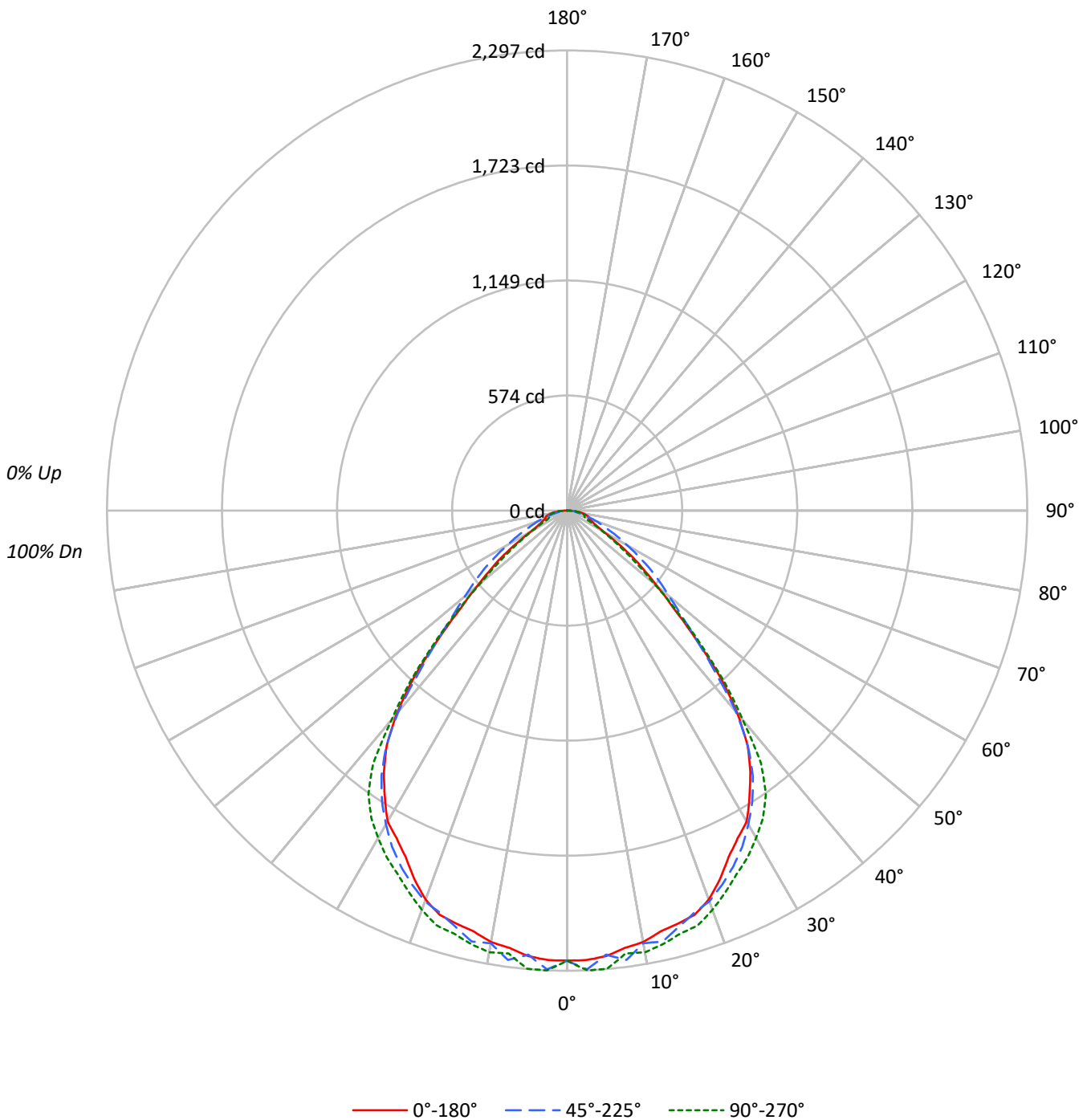
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7195	7195	7195
5°	7177	7154	7379
10°	7111	7130	7279
15°	7078	7132	7246
20°	7040	7075	7227
25°	6740	6930	7073
30°	6629	6689	6975
35°	6234	6313	6762
40°	5524	5486	5702
45°	4126	4135	4250
50°	2904	3304	2813
55°	2143	2790	1922
60°	1340	2205	1255
65°	1093	1747	878
70°	1084	1455	866
75°	1345	1069	1119
80°	1499	843	1368
85°	1492	1569	1532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	5.0
10°-20°	609.2	14.1
20°-30°	902.2	20.9
30°-40°	1010.6	23.4
40°-50°	742.6	17.2
50°-60°	415.1	9.6
60°-70°	231.4	5.4
70°-80°	135.9	3.2
80°-90°	50.0	1.2
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°	1725.2	40.0
0°-40°	2735.8	63.5
0°-60°	3893.5	90.3
0°-90°	4310.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2232	2274	2225	2271	2295	211
15°	2135	2148	2151	2184	2186	603
25°	1907	1923	1961	1989	2002	884
35°	1595	1596	1615	1688	1730	988
45°	911	985	913	978	938	712
55°	384	467	500	499	344	343
65°	144	256	231	296	116	149
75°	109	153	86	174	90	109
85°	41	60	43	55	42	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2246.6	2246.6	2246.6	2246.6	2246.6
2.5°	2245.6	2265.9	2292.3	2295.4	2297.4
5°	2232.4	2274.0	2225.3	2271.0	2295.4
7.5°	2201.9	2227.3	2262.9	2217.1	2230.3
10°	2186.6	2192.7	2192.7	2249.6	2238.5
12.5°	2152.2	2192.7	2202.9	2191.7	2216.1
15°	2134.9	2148.1	2151.1	2183.6	2185.6
17.5°	2115.6	2112.6	2105.5	2128.8	2170.4
20°	2065.8	2054.7	2076.0	2104.4	2120.7
22.5°	1992.7	1995.7	2021.1	2044.5	2062.8
25°	1907.4	1922.6	1961.2	1988.6	2001.8
27.5°	1843.4	1865.8	1892.2	1924.6	1951.0
30°	1792.6	1790.6	1808.9	1855.6	1886.1
32.5°	1694.1	1701.2	1720.5	1776.3	1819.0
35°	1594.6	1595.6	1614.9	1688.0	1729.6
37.5°	1479.8	1471.7	1482.8	1562.0	1589.5
40°	1321.3	1323.4	1312.2	1368.1	1364.0
42.5°	1136.5	1152.8	1094.8	1168.0	1162.9
45°	911.0	985.2	913.1	978.1	938.5
47.5°	719.1	828.7	768.9	816.5	742.5
50°	582.9	695.7	663.2	684.5	564.7
52.5°	478.4	569.8	579.9	585.0	440.8
55°	383.9	467.2	499.7	498.7	344.3
57.5°	283.4	379.8	417.4	432.7	261.0
60°	209.2	315.9	344.3	377.8	196.0
62.5°	168.6	277.3	284.4	331.1	149.3
65°	144.2	256.0	230.6	295.6	115.8
67.5°	127.9	238.7	187.9	264.1	98.6
70°	115.8	212.3	155.4	236.6	92.5
72.5°	112.7	180.8	119.8	211.2	91.4
75°	108.7	153.3	86.4	173.7	90.4
77.5°	93.5	131.0	62.0	134.0	84.3
80°	81.3	104.6	45.7	100.6	74.2
82.5°	63.0	79.3	40.6	76.2	59.9
85°	40.6	59.9	42.7	54.9	41.7
87.5°	19.3	33.5	30.5	29.5	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)