

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: P225656

Luminaire Tested: **24AC-LD5-68-UNV-L840-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-68-UNV-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

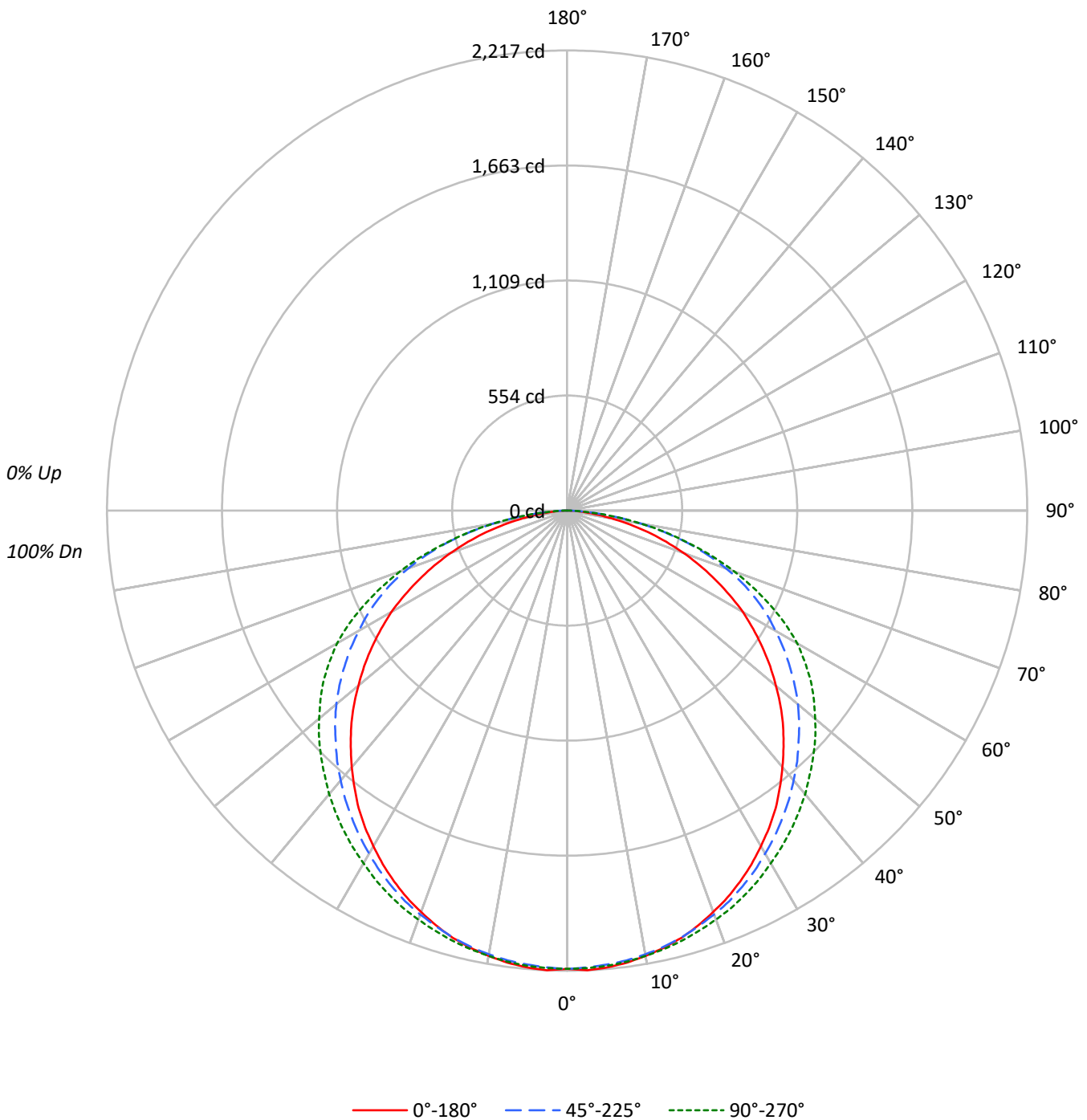
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2971	2971	2971
5°	2984	2965	2974
10°	2976	2966	2976
15°	2968	2966	2987
20°	2947	2965	3002
25°	2927	2966	3026
30°	2900	2965	3049
35°	2876	2970	3086
40°	2834	2981	3133
45°	2801	3000	3191
50°	2748	3039	3265
55°	2696	3073	3362
60°	2632	3118	3446
65°	2505	3188	3443
70°	2349	3205	3369
75°	2101	3112	3152
80°	1685	2786	2797
85°	1190	2024	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	3.0
10°-20°	601.5	8.7
20°-30°	921.7	13.3
30°-40°	1132.9	16.3
40°-50°	1215.2	17.5
50°-60°	1162.1	16.8
60°-70°	955.9	13.8
70°-80°	587.9	8.5
80°-90°	149.9	2.2
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°	1732.2	25.0
0°-40°	2865.1	41.3
0°-60°	5242.3	75.6
0°-90°	6936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2209	2200	2195	2192	2202	210
15°	2131	2123	2129	2132	2144	601
25°	1972	1972	1998	2020	2038	909
35°	1751	1762	1808	1854	1879	1094
45°	1472	1500	1577	1646	1677	1134
55°	1149	1205	1310	1398	1433	1027
65°	787	875	1001	1062	1082	779
75°	404	525	599	609	606	427
85°	77	126	131	126	123	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2217.0	2206.2	2203.1	2198.5	2206.2
5°	2209.3	2200.1	2195.4	2192.3	2201.6
7.5°	2197.0	2187.7	2186.2	2183.1	2192.3
10°	2178.5	2170.7	2170.7	2169.2	2178.5
12.5°	2156.9	2147.6	2152.2	2153.8	2163.0
15°	2130.6	2122.9	2129.1	2132.2	2144.5
17.5°	2096.7	2090.5	2099.8	2109.0	2121.4
20°	2058.1	2056.6	2070.5	2082.8	2096.7
22.5°	2018.0	2018.0	2038.1	2051.9	2070.5
25°	1971.7	1971.7	1997.9	2019.5	2038.1
27.5°	1922.3	1925.4	1956.3	1982.5	2002.6
30°	1866.8	1876.1	1908.5	1940.9	1962.5
32.5°	1811.3	1819.0	1860.6	1902.3	1922.3
35°	1751.1	1761.9	1808.2	1854.5	1879.1
37.5°	1683.2	1698.6	1755.7	1806.6	1832.9
40°	1613.8	1633.8	1697.1	1755.7	1783.5
42.5°	1542.8	1570.6	1640.0	1700.2	1729.5
45°	1471.8	1499.6	1576.8	1646.2	1677.0
47.5°	1394.7	1428.6	1516.6	1587.6	1621.5
50°	1312.9	1353.0	1451.8	1525.8	1559.8
52.5°	1232.7	1279.0	1382.4	1465.7	1498.1
55°	1149.4	1204.9	1309.8	1397.8	1433.3
57.5°	1063.0	1126.3	1237.3	1326.8	1357.7
60°	978.1	1041.4	1158.7	1249.7	1280.5
62.5°	882.5	959.6	1084.6	1169.5	1186.4
65°	786.8	874.8	1001.3	1061.5	1081.5
67.5°	692.7	788.4	914.9	958.1	970.4
70°	597.1	695.8	814.6	850.1	856.3
72.5°	499.9	611.0	711.2	731.3	734.4
75°	404.2	524.6	598.6	609.4	606.3
77.5°	310.1	428.9	481.4	486.0	487.5
80°	217.5	328.6	359.5	361.0	361.0
82.5°	140.4	228.3	243.8	240.7	243.8
85°	77.1	126.5	131.1	126.5	123.4
87.5°	24.7	37.0	40.1	38.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)