

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: P219061

Luminaire Tested: **24GR-LD5-72-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F1-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6346.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

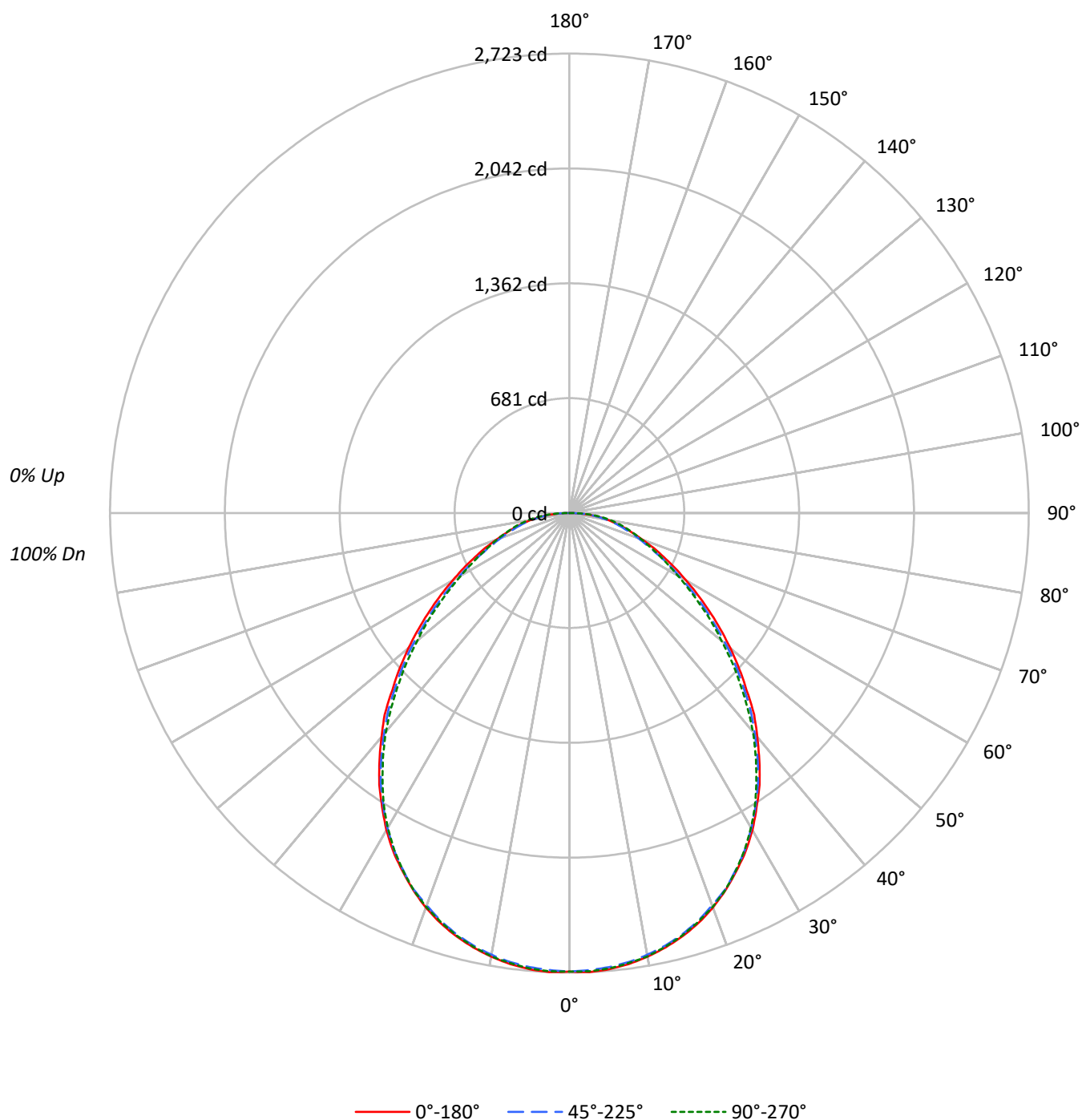
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80	98	90	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	85	73	65	58	82	72	64	58		69	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	72	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4162	4162	4162
5°	4172	4152	4164
10°	4152	4133	4149
15°	4117	4098	4107
20°	4056	4032	4048
25°	3957	3944	3947
30°	3837	3814	3807
35°	3674	3645	3612
40°	3463	3418	3385
45°	3217	3160	3101
50°	2966	2889	2803
55°	2697	2602	2522
60°	2443	2314	2272
65°	2234	2085	2099
70°	2055	1937	2029
75°	1998	1894	2067
80°	2002	1951	2201
85°	2200	2081	2423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	4.0
10°-20°	728.7	11.5
20°-30°	1073.7	16.9
30°-40°	1214.2	19.1
40°-50°	1126.3	17.7
50°-60°	875.0	13.8
60°-70°	586.7	9.2
70°-80°	351.6	5.5
80°-90°	133.8	2.1
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°	2059.1	32.4
0°-40°	3273.3	51.6
0°-60°	5274.6	83.1
0°-90°	6346.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6346.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2714	2706	2701	2699	2709	258
15°	2596	2585	2584	2579	2590	731
25°	2342	2339	2334	2330	2336	1078
35°	1965	1957	1949	1938	1932	1224
45°	1485	1480	1459	1436	1432	1149
55°	1010	998	975	950	944	906
65°	616	597	575	573	579	615
75°	338	326	320	336	349	357
85°	125	117	118	139	138	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2723.3	2714.5	2710.5	2708.6	2717.4
5°	2713.5	2705.6	2700.7	2698.9	2708.6
7.5°	2695.9	2687.1	2684.1	2680.2	2690.0
10°	2669.4	2661.6	2657.7	2654.8	2667.5
12.5°	2636.2	2629.4	2625.4	2623.5	2631.3
15°	2596.1	2585.3	2584.3	2579.4	2590.2
17.5°	2546.2	2536.4	2534.4	2532.4	2539.3
20°	2488.4	2478.7	2473.8	2472.8	2483.5
22.5°	2418.9	2412.1	2414.1	2408.2	2416.0
25°	2341.7	2338.7	2333.9	2329.9	2335.8
27.5°	2261.5	2251.7	2251.7	2243.8	2249.7
30°	2169.4	2162.6	2156.7	2148.9	2152.8
32.5°	2065.7	2062.8	2053.9	2046.1	2048.1
35°	1964.9	1957.1	1949.3	1937.5	1931.6
37.5°	1849.4	1841.6	1831.8	1815.2	1813.2
40°	1732.0	1725.2	1709.5	1691.9	1692.9
42.5°	1620.5	1609.7	1590.1	1566.7	1561.8
45°	1485.4	1479.5	1459.0	1436.5	1431.6
47.5°	1365.1	1361.1	1335.8	1312.2	1306.3
50°	1244.7	1233.9	1212.4	1189.0	1176.2
52.5°	1126.3	1112.6	1085.2	1069.6	1063.6
55°	1009.9	998.1	974.6	950.1	944.3
57.5°	901.3	888.6	860.2	842.5	839.6
60°	797.5	785.8	755.4	742.7	741.8
62.5°	705.5	685.9	665.4	656.6	657.6
65°	616.4	596.9	575.4	573.4	579.3
67.5°	538.2	517.6	496.1	504.0	509.8
70°	458.9	444.3	432.5	445.2	453.0
72.5°	391.4	382.6	371.9	389.5	399.2
75°	337.6	325.9	320.0	335.7	349.3
77.5°	279.8	270.0	270.0	286.7	301.4
80°	227.0	220.2	221.2	240.7	249.5
82.5°	178.1	168.3	169.2	193.8	199.6
85°	125.2	117.4	118.4	139.0	137.9
87.5°	65.5	62.6	65.5	80.2	76.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)