

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: P219060

Luminaire Tested: **24GR-LD5-64-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219060
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-LD5-64-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: 5651.5 lumens
Efficiency: N/A
Efficacy: 117.4 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

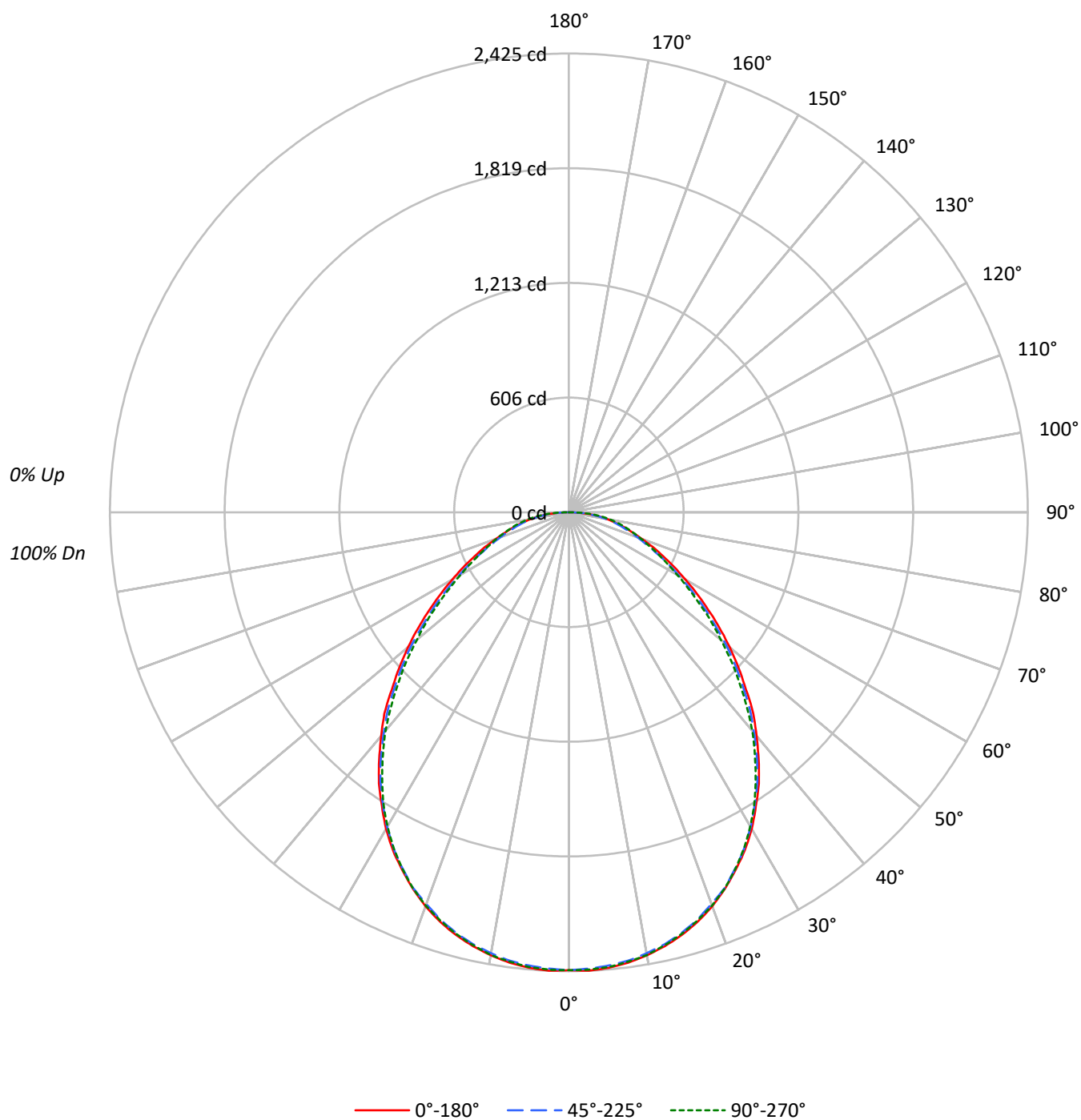
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3706	3706	3706
5°	3715	3697	3708
10°	3697	3681	3694
15°	3666	3649	3657
20°	3612	3590	3605
25°	3524	3512	3515
30°	3416	3397	3390
35°	3272	3245	3216
40°	3083	3043	3014
45°	2865	2814	2761
50°	2641	2572	2496
55°	2401	2317	2245
60°	2176	2061	2023
65°	1989	1857	1869
70°	1830	1725	1806
75°	1779	1686	1841
80°	1783	1737	1960
85°	1959	1852	2160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	4.0
10°-20°	648.8	11.5
20°-30°	956.1	16.9
30°-40°	1081.2	19.1
40°-50°	1002.9	17.7
50°-60°	779.1	13.8
60°-70°	522.5	9.2
70°-80°	313.1	5.5
80°-90°	119.1	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°	1833.5	32.4
0°-40°	2914.7	51.6
0°-60°	4696.8	83.1
0°-90°	5651.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5651.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2416	2409	2405	2403	2412	229
15°	2312	2302	2301	2297	2306	651
25°	2085	2082	2078	2075	2080	960
35°	1750	1743	1736	1725	1720	1090
45°	1323	1317	1299	1279	1275	1023
55°	899	889	868	846	841	807
65°	549	532	512	511	516	548
75°	301	290	285	299	311	318
85°	112	105	105	124	123	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2419.7	2419.7	2419.7	2419.7	2419.7
2.5°	2424.9	2417.1	2413.6	2411.9	2419.7
5°	2416.3	2409.3	2404.9	2403.2	2411.9
7.5°	2400.5	2392.7	2390.1	2386.6	2395.4
10°	2377.0	2370.1	2366.5	2364.0	2375.3
12.5°	2347.4	2341.3	2337.8	2336.1	2343.1
15°	2311.7	2302.1	2301.2	2296.9	2306.4
17.5°	2267.2	2258.5	2256.8	2255.0	2261.1
20°	2215.8	2207.1	2202.7	2201.9	2211.5
22.5°	2154.0	2147.8	2149.6	2144.4	2151.4
25°	2085.2	2082.5	2078.2	2074.7	2079.9
27.5°	2013.7	2005.0	2005.0	1998.0	2003.2
30°	1931.7	1925.7	1920.5	1913.5	1916.9
32.5°	1839.4	1836.8	1829.0	1822.0	1823.7
35°	1749.7	1742.7	1735.7	1725.2	1720.0
37.5°	1646.8	1639.8	1631.2	1616.4	1614.6
40°	1542.2	1536.2	1522.2	1506.5	1507.4
42.5°	1442.9	1433.4	1415.9	1395.0	1390.7
45°	1322.7	1317.4	1299.2	1279.2	1274.8
47.5°	1215.5	1212.0	1189.4	1168.5	1163.2
50°	1108.4	1098.7	1079.6	1058.7	1047.4
52.5°	1002.9	990.7	966.3	952.4	947.1
55°	899.2	888.8	867.8	846.1	840.8
57.5°	802.5	791.2	765.9	750.3	747.6
60°	710.2	699.7	672.7	661.3	660.5
62.5°	628.2	610.8	592.5	584.7	585.6
65°	548.9	531.5	512.4	510.6	515.8
67.5°	479.3	461.0	441.8	448.7	454.0
70°	408.7	395.6	385.1	396.5	403.4
72.5°	348.6	340.7	331.1	346.8	355.5
75°	300.7	290.2	284.9	298.8	311.1
77.5°	249.2	240.5	240.5	255.3	268.4
80°	202.2	196.1	196.9	214.3	222.2
82.5°	158.6	149.9	150.8	172.5	177.8
85°	111.5	104.6	105.4	123.8	122.9
87.5°	58.4	55.7	58.4	71.5	67.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)