

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: P219255

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219255
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-LD5-64-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: 5820.2 lumens
Efficiency: N/A
Efficacy: 120.9 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

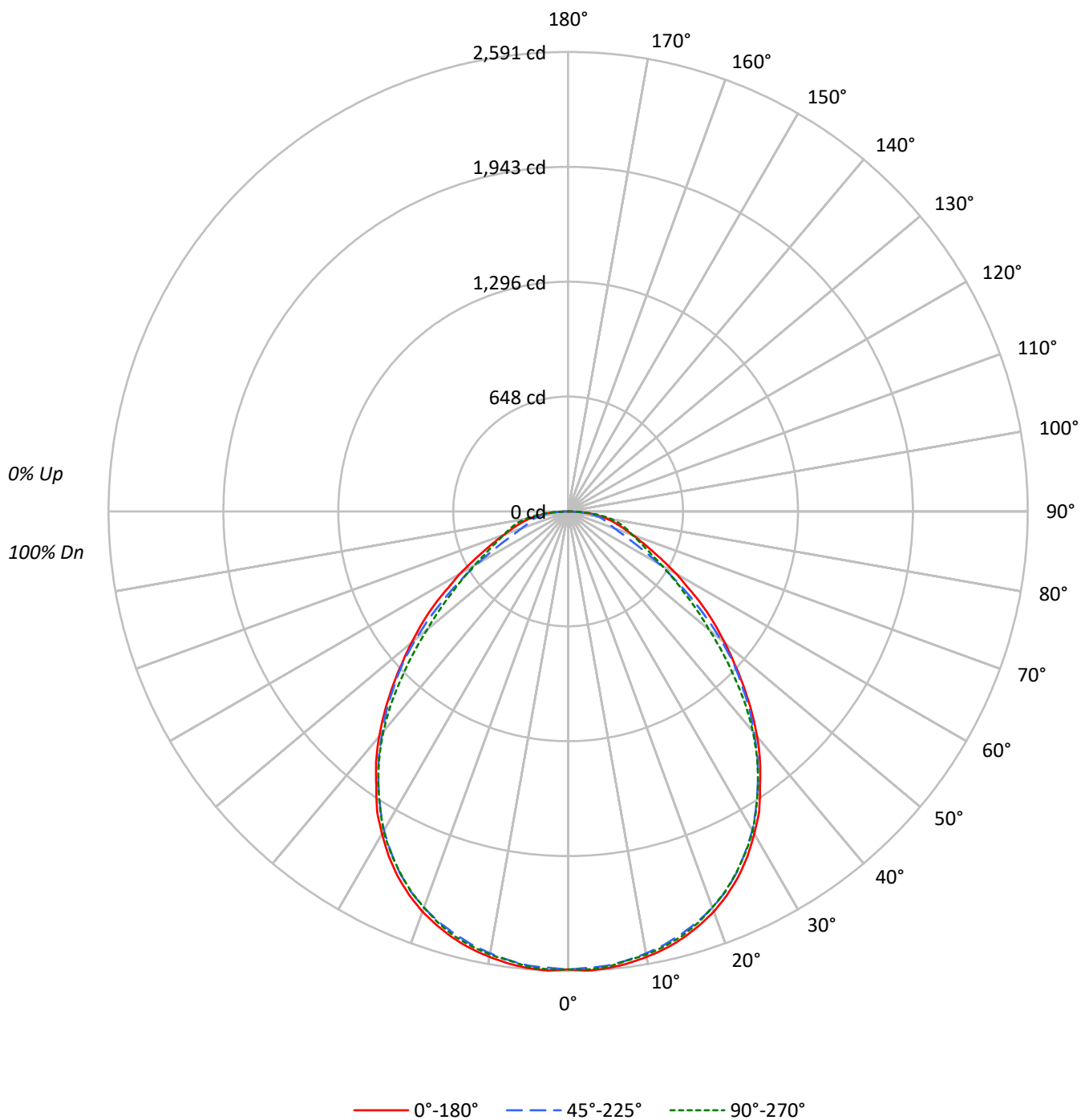
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3955	3955	3955
5°	3974	3952	3962
10°	3967	3935	3946
15°	3952	3912	3929
20°	3915	3875	3874
25°	3838	3797	3794
30°	3712	3673	3681
35°	3525	3485	3490
40°	3315	3258	3238
45°	3038	2997	2879
50°	2747	2672	2470
55°	2466	2245	2130
60°	2160	1807	1873
65°	1883	1421	1724
70°	1723	1240	1723
75°	1724	1320	1900
80°	1872	1555	2164
85°	2054	1754	2321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	4.2
10°-20°	697.9	12.0
20°-30°	1034.8	17.8
30°-40°	1167.4	20.1
40°-50°	1057.3	18.2
50°-60°	762.8	13.1
60°-70°	455.4	7.8
70°-80°	281.5	4.8
80°-90°	118.6	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°	1977.2	34.0
0°-40°	3144.6	54.0
0°-60°	4964.7	85.3
0°-90°	5820.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2582	2582	2582	2582	2582	
5°	2585	2582	2571	2568	2577	246
15°	2492	2477	2467	2468	2478	703
25°	2271	2259	2247	2239	2245	1043
35°	1886	1883	1864	1865	1867	1180
45°	1403	1394	1384	1350	1329	1081
55°	924	895	841	799	798	824
65°	520	458	392	445	476	523
75°	291	253	223	278	321	311
85°	117	102	100	130	132	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2582.4	2582.4	2582.4	2582.4	2582.4
2.5°	2591.4	2584.2	2575.2	2580.6	2585.0
5°	2585.0	2581.5	2570.7	2568.0	2577.0
7.5°	2571.6	2562.6	2552.7	2557.2	2553.6
10°	2550.9	2542.8	2530.3	2531.2	2537.4
12.5°	2525.7	2515.9	2502.3	2506.0	2511.3
15°	2492.5	2477.2	2467.3	2468.2	2478.1
17.5°	2450.2	2438.5	2426.0	2428.6	2433.2
20°	2401.7	2395.4	2377.4	2372.0	2376.5
22.5°	2340.5	2328.8	2319.0	2316.2	2317.1
25°	2271.3	2258.7	2247.0	2238.9	2245.2
27.5°	2190.4	2179.5	2164.3	2161.6	2167.0
30°	2098.6	2090.5	2077.1	2073.4	2081.5
32.5°	2005.1	1991.6	1972.8	1972.8	1974.5
35°	1885.5	1882.9	1864.0	1864.9	1866.7
37.5°	1777.6	1765.0	1754.3	1743.5	1748.8
40°	1658.0	1643.6	1629.3	1622.1	1619.3
42.5°	1529.4	1518.7	1512.4	1486.3	1480.0
45°	1402.7	1393.7	1383.8	1349.6	1329.0
47.5°	1273.2	1271.5	1263.4	1203.1	1182.4
50°	1152.7	1150.1	1121.2	1057.4	1036.8
52.5°	1038.5	1020.6	982.8	919.8	916.3
55°	923.5	894.6	840.7	799.3	797.5
57.5°	802.1	767.9	713.1	690.5	702.2
60°	705.0	652.7	589.9	592.5	611.4
62.5°	604.2	545.8	483.8	510.7	533.2
65°	519.7	457.6	392.0	445.1	475.7
67.5°	446.0	388.5	325.5	396.5	426.2
70°	384.8	338.1	276.9	351.5	384.8
72.5°	336.2	293.1	245.4	315.6	354.3
75°	291.3	252.7	223.0	277.8	321.0
77.5°	252.7	214.9	201.4	245.4	287.7
80°	212.2	178.0	176.3	214.0	245.4
82.5°	165.4	142.1	142.1	178.9	197.8
85°	116.9	102.5	99.8	130.4	132.1
87.5°	60.2	57.5	52.1	68.3	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)