

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: P219225

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219225
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5345.9 lumens
Efficiency: N/A
Efficacy: 111.0 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

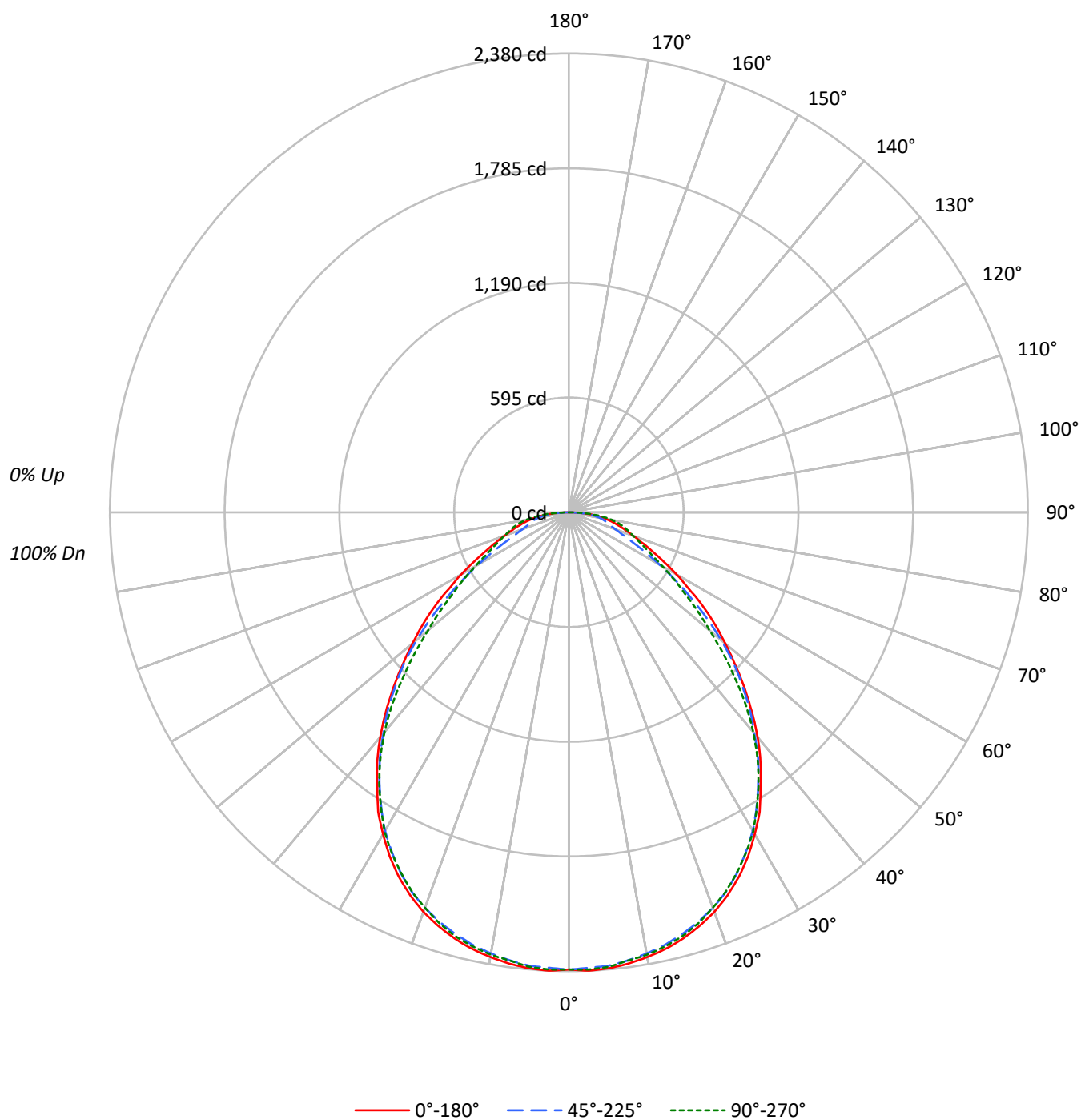
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3633	3633	3633
5°	3651	3630	3639
10°	3644	3614	3625
15°	3630	3593	3609
20°	3595	3559	3558
25°	3526	3488	3485
30°	3409	3374	3381
35°	3238	3201	3206
40°	3045	2992	2974
45°	2791	2753	2644
50°	2523	2454	2269
55°	2265	2062	1956
60°	1983	1660	1720
65°	1730	1305	1583
70°	1583	1139	1583
75°	1584	1212	1745
80°	1719	1427	1989
85°	1887	1610	2133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	4.2
10°-20°	641.0	12.0
20°-30°	950.5	17.8
30°-40°	1072.2	20.1
40°-50°	971.1	18.2
50°-60°	700.6	13.1
60°-70°	418.3	7.8
70°-80°	258.5	4.8
80°-90°	108.9	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°	1816.1	34.0
0°-40°	2888.3	54.0
0°-60°	4560.1	85.3
0°-90°	5345.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5345.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2374	2371	2361	2359	2367	226
15°	2289	2275	2266	2267	2276	645
25°	2086	2075	2064	2056	2062	958
35°	1732	1729	1712	1713	1714	1084
45°	1288	1280	1271	1240	1221	993
55°	848	822	772	734	732	757
65°	477	420	360	409	437	480
75°	268	232	205	255	295	286
85°	107	94	92	120	121	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2380.2	2373.5	2365.3	2370.2	2374.4
5°	2374.4	2371.1	2361.2	2358.7	2367.0
7.5°	2362.0	2353.7	2344.6	2348.8	2345.5
10°	2343.0	2335.5	2324.0	2324.8	2330.6
12.5°	2319.9	2310.8	2298.4	2301.7	2306.6
15°	2289.3	2275.3	2266.2	2267.0	2276.1
17.5°	2250.5	2239.8	2228.2	2230.7	2234.8
20°	2205.9	2200.1	2183.6	2178.6	2182.8
22.5°	2149.7	2139.0	2129.9	2127.5	2128.3
25°	2086.2	2074.6	2063.9	2056.4	2062.2
27.5°	2011.9	2001.9	1987.9	1985.4	1990.4
30°	1927.6	1920.2	1907.7	1904.4	1911.9
32.5°	1841.7	1829.3	1811.9	1811.9	1813.6
35°	1731.9	1729.4	1712.1	1712.8	1714.5
37.5°	1632.8	1621.2	1611.3	1601.4	1606.3
40°	1522.9	1509.7	1496.5	1489.9	1487.4
42.5°	1404.8	1394.9	1389.2	1365.2	1359.4
45°	1288.3	1280.1	1271.0	1239.6	1220.7
47.5°	1169.4	1167.8	1160.3	1105.0	1086.0
50°	1058.8	1056.3	1029.9	971.2	952.3
52.5°	953.9	937.4	902.7	844.9	841.6
55°	848.2	821.8	772.2	734.2	732.5
57.5°	736.7	705.3	654.9	634.3	645.0
60°	647.4	599.6	541.8	544.3	561.6
62.5°	555.0	501.3	444.3	469.1	489.8
65°	477.4	420.4	360.1	408.8	436.9
67.5°	409.6	356.7	298.9	364.2	391.4
70°	353.5	310.5	254.4	322.9	353.5
72.5°	308.9	269.2	225.5	289.8	325.4
75°	267.6	232.0	204.8	255.2	294.9
77.5°	232.0	197.4	185.0	225.5	264.3
80°	194.9	163.5	161.8	196.5	225.5
82.5°	152.0	130.5	130.5	164.4	181.7
85°	107.4	94.2	91.6	119.8	121.4
87.5°	55.3	52.9	47.9	62.7	62.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)