

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: P219211

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219211
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-LD5-72-A19/156-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5693.5 lumens
Efficiency: N/A
Efficacy: 101.6 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

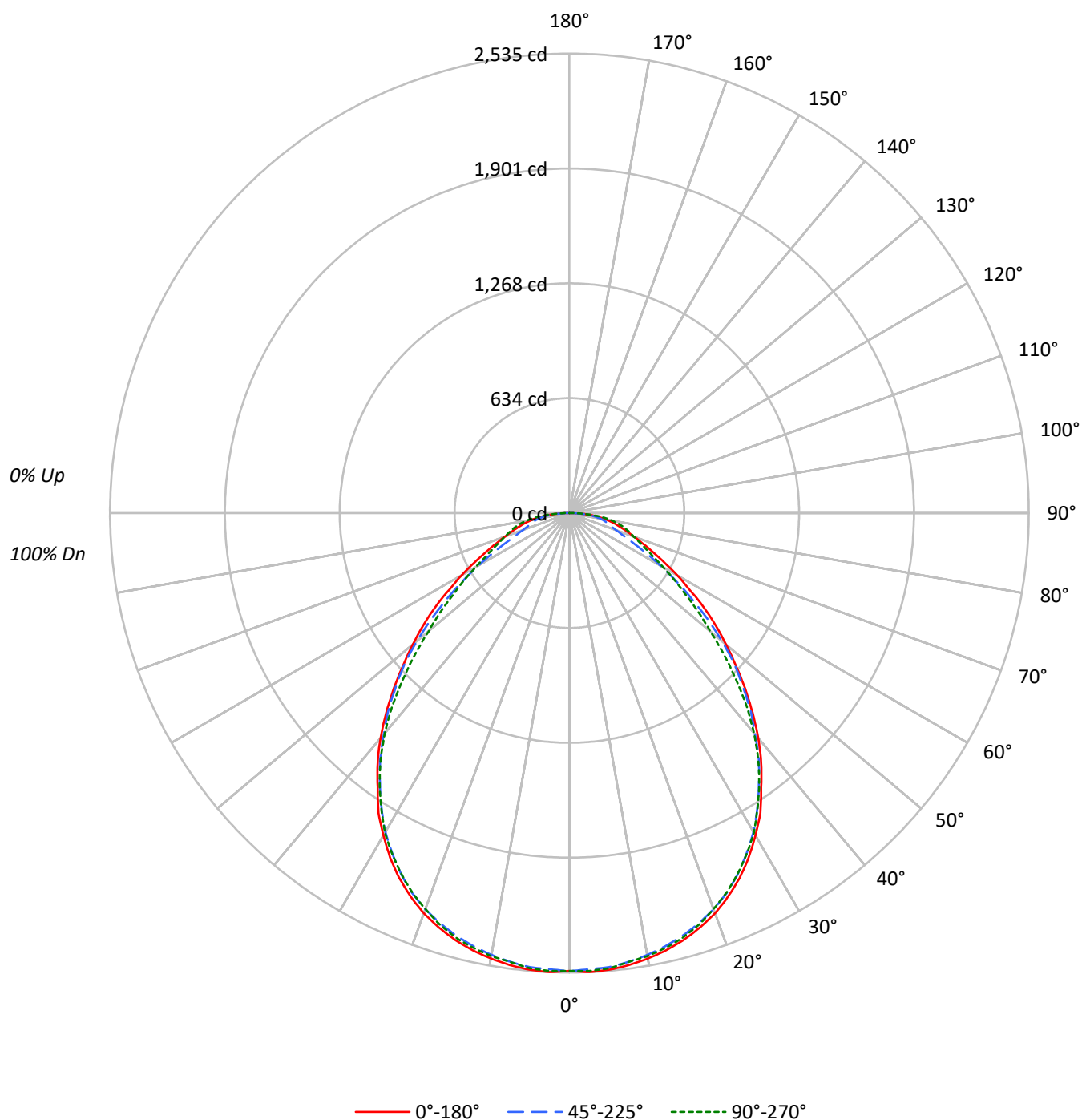
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3869	3869	3869
5°	3888	3866	3876
10°	3881	3850	3860
15°	3866	3827	3844
20°	3829	3791	3789
25°	3755	3715	3712
30°	3631	3593	3601
35°	3449	3409	3414
40°	3243	3187	3167
45°	2972	2932	2816
50°	2687	2613	2417
55°	2412	2196	2083
60°	2112	1767	1832
65°	1843	1390	1686
70°	1686	1213	1686
75°	1687	1291	1858
80°	1830	1521	2118
85°	2009	1717	2272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	4.2
10°-20°	682.7	12.0
20°-30°	1012.3	17.8
30°-40°	1142.0	20.1
40°-50°	1034.3	18.2
50°-60°	746.2	13.1
60°-70°	445.5	7.8
70°-80°	275.4	4.8
80°-90°	116.0	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°	1934.2	34.0
0°-40°	3076.2	54.0
0°-60°	4856.6	85.3
0°-90°	5693.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5693.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2529	2525	2515	2512	2521	240
15°	2438	2423	2414	2414	2424	687
25°	2222	2210	2198	2190	2196	1021
35°	1844	1842	1823	1824	1826	1154
45°	1372	1363	1354	1320	1300	1057
55°	903	875	822	782	780	806
65°	508	448	384	435	465	511
75°	285	247	218	272	314	304
85°	114	100	98	128	129	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2526.2	2526.2	2526.2	2526.2	2526.2
2.5°	2534.9	2527.9	2519.1	2524.4	2528.8
5°	2528.8	2525.3	2514.7	2512.1	2520.8
7.5°	2515.6	2506.8	2497.1	2501.5	2498.0
10°	2495.3	2487.5	2475.2	2476.0	2482.1
12.5°	2470.7	2461.1	2447.9	2451.4	2456.6
15°	2438.2	2423.3	2413.6	2414.4	2424.1
17.5°	2396.9	2385.4	2373.1	2375.7	2380.1
20°	2349.4	2343.2	2325.6	2320.4	2324.7
22.5°	2289.5	2278.1	2268.4	2265.8	2266.6
25°	2221.8	2209.5	2198.1	2190.1	2196.3
27.5°	2142.7	2132.1	2117.2	2114.5	2119.8
30°	2053.0	2045.0	2031.8	2028.3	2036.2
32.5°	1961.4	1948.2	1929.8	1929.8	1931.6
35°	1844.5	1841.8	1823.4	1824.3	1826.0
37.5°	1738.9	1726.6	1716.1	1705.5	1710.8
40°	1622.0	1607.9	1593.8	1586.8	1584.2
42.5°	1496.2	1485.6	1479.4	1453.9	1447.8
45°	1372.1	1363.3	1353.7	1320.3	1300.0
47.5°	1245.5	1243.7	1235.8	1176.9	1156.6
50°	1127.6	1125.0	1096.8	1034.3	1014.2
52.5°	1015.9	998.4	961.4	899.8	896.3
55°	903.3	875.2	822.4	782.0	780.1
57.5°	784.6	751.2	697.5	675.5	686.9
60°	689.6	638.5	577.0	579.7	598.1
62.5°	591.1	533.9	473.2	499.6	521.6
65°	508.4	447.7	383.5	435.4	465.3
67.5°	436.2	380.0	318.4	387.9	416.9
70°	376.5	330.7	270.9	343.9	376.5
72.5°	329.0	286.8	240.1	308.7	346.5
75°	285.0	247.1	218.1	271.8	314.0
77.5°	247.1	210.2	197.0	240.1	281.5
80°	207.5	174.2	172.4	209.3	240.1
82.5°	161.9	139.0	139.0	175.1	193.5
85°	114.3	100.3	97.7	127.5	129.3
87.5°	59.0	56.3	51.0	66.8	66.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)