

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: P219209

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219209
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-LD5-56-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: 4407.6 lumens
Efficiency: N/A
Efficacy: 97.6 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

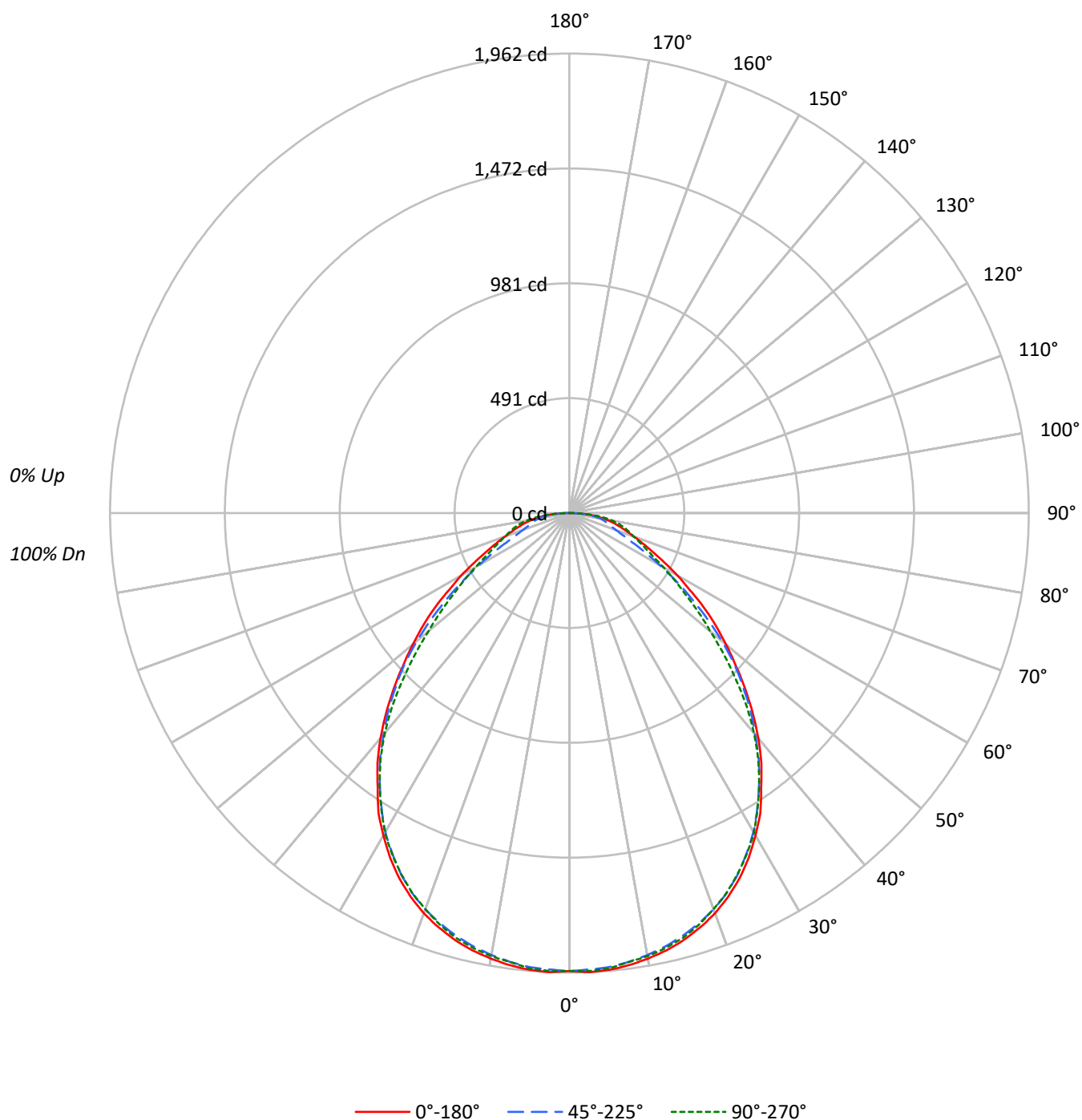
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2995	2995	2995
5°	3010	2993	3000
10°	3004	2980	2989
15°	2993	2963	2976
20°	2965	2935	2933
25°	2907	2876	2873
30°	2811	2782	2788
35°	2670	2639	2643
40°	2511	2467	2452
45°	2301	2270	2180
50°	2080	2023	1871
55°	1867	1700	1613
60°	1635	1368	1419
65°	1426	1076	1305
70°	1305	940	1305
75°	1305	999	1439
80°	1417	1178	1640
85°	1557	1329	1759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	4.2
10°-20°	528.5	12.0
20°-30°	783.7	17.8
30°-40°	884.1	20.1
40°-50°	800.7	18.2
50°-60°	577.6	13.1
60°-70°	344.9	7.8
70°-80°	213.2	4.8
80°-90°	89.8	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°	1497.4	34.0
0°-40°	2381.4	54.0
0°-60°	3759.7	85.3
0°-90°	4407.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1958	1955	1947	1945	1952	186
15°	1888	1876	1868	1869	1877	532
25°	1720	1710	1702	1696	1700	790
35°	1428	1426	1412	1412	1414	893
45°	1062	1055	1048	1022	1006	819
55°	699	678	637	605	604	624
65°	394	347	297	337	360	396
75°	221	191	169	210	243	236
85°	89	78	76	99	100	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.6	1955.6	1955.6	1955.6	1955.6
2.5°	1962.4	1957.0	1950.2	1954.2	1957.7
5°	1957.7	1955.0	1946.8	1944.7	1951.5
7.5°	1947.4	1940.6	1933.2	1936.6	1933.8
10°	1931.8	1925.7	1916.1	1916.8	1921.6
12.5°	1912.7	1905.3	1895.0	1897.7	1901.8
15°	1887.6	1875.9	1868.5	1869.1	1876.7
17.5°	1855.5	1846.6	1837.1	1839.2	1842.6
20°	1818.8	1814.0	1800.4	1796.3	1799.7
22.5°	1772.4	1763.6	1756.1	1754.1	1754.7
25°	1720.0	1710.5	1701.7	1695.5	1700.3
27.5°	1658.7	1650.6	1639.0	1637.0	1641.1
30°	1589.2	1583.2	1572.9	1570.2	1576.4
32.5°	1518.5	1508.2	1494.0	1494.0	1495.4
35°	1427.9	1425.9	1411.5	1412.2	1413.6
37.5°	1346.2	1336.7	1328.5	1320.3	1324.4
40°	1255.7	1244.8	1233.9	1228.4	1226.3
42.5°	1158.2	1150.0	1145.3	1125.5	1120.8
45°	1062.2	1055.4	1048.0	1022.0	1006.4
47.5°	964.2	962.8	956.7	911.1	895.4
50°	873.0	870.9	849.1	800.7	785.1
52.5°	786.5	772.8	744.2	696.6	693.9
55°	699.3	677.5	636.6	605.3	604.0
57.5°	607.4	581.5	540.0	522.9	531.8
60°	533.8	494.4	446.7	448.7	463.1
62.5°	457.6	413.4	366.4	386.8	403.8
65°	393.6	346.6	296.9	337.0	360.2
67.5°	337.8	294.1	246.5	300.3	322.8
70°	291.4	256.0	209.8	266.3	291.4
72.5°	254.7	222.0	185.9	239.0	268.3
75°	220.6	191.3	168.8	210.4	243.1
77.5°	191.3	162.8	152.5	185.9	217.9
80°	160.7	134.8	133.5	162.0	185.9
82.5°	125.3	107.6	107.6	135.5	149.8
85°	88.6	77.7	75.6	98.7	100.1
87.5°	45.6	43.5	39.5	51.7	51.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)