

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: P219251

Luminaire Tested: **24GR-LD5-38-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219251
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-LD5-38-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: 3494.7 lumens
Efficiency: N/A
Efficacy: 114.1 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

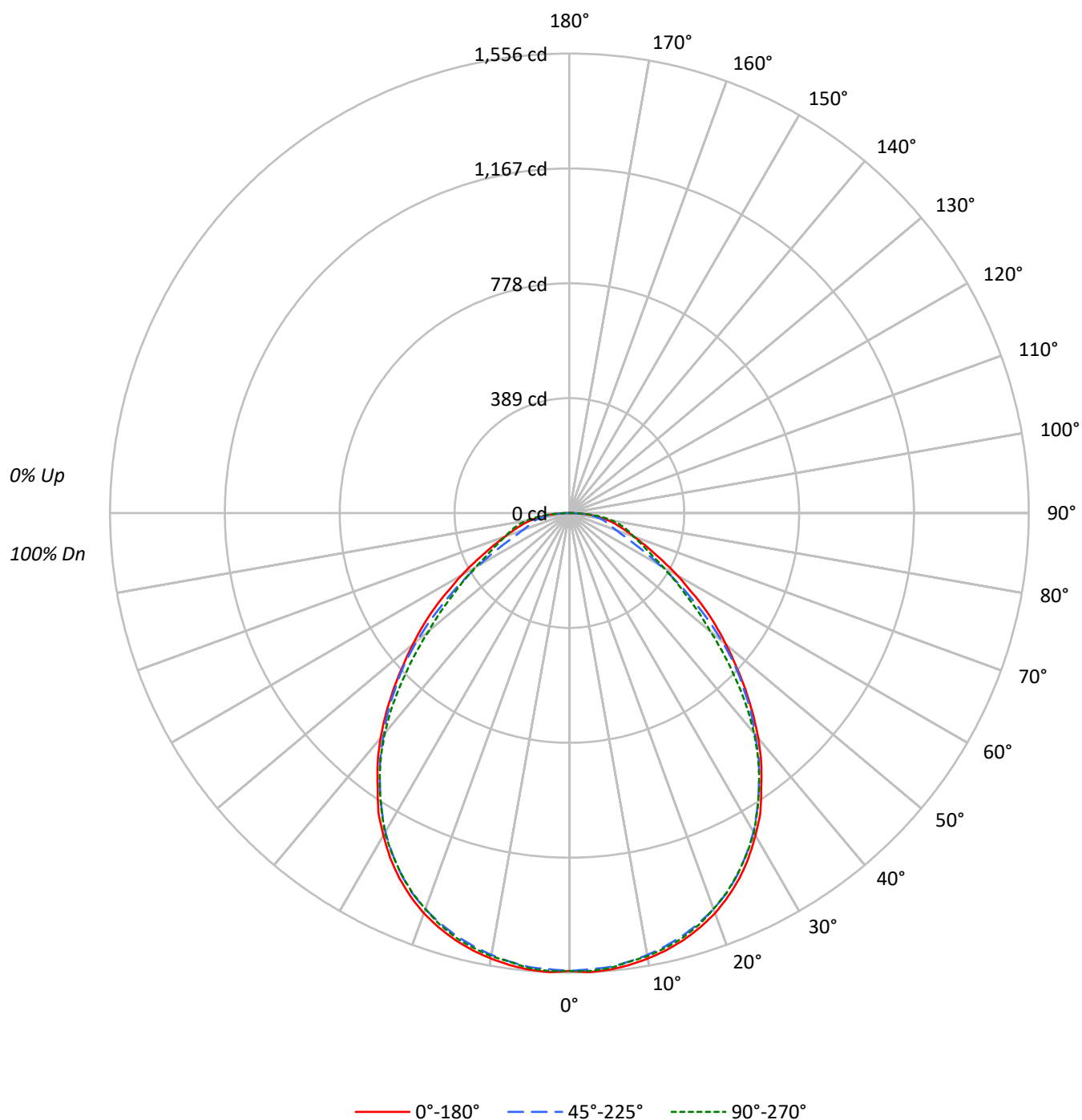
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2375	2375	2375
5°	2386	2373	2379
10°	2382	2363	2369
15°	2373	2349	2359
20°	2350	2327	2326
25°	2305	2280	2278
30°	2229	2206	2210
35°	2117	2093	2096
40°	1990	1956	1944
45°	1824	1800	1729
50°	1649	1604	1483
55°	1481	1348	1279
60°	1296	1085	1125
65°	1131	853	1035
70°	1034	745	1034
75°	1035	792	1140
80°	1124	933	1300
85°	1234	1054	1395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	4.2
10°-20°	419.0	12.0
20°-30°	621.3	17.8
30°-40°	700.9	20.1
40°-50°	634.8	18.2
50°-60°	458.0	13.1
60°-70°	273.5	7.8
70°-80°	169.0	4.8
80°-90°	71.2	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°	1187.2	34.0
0°-40°	1888.1	54.0
0°-60°	2981.0	85.3
0°-90°	3494.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1552	1550	1544	1542	1547	147
15°	1497	1487	1482	1482	1488	422
25°	1364	1356	1349	1344	1348	626
35°	1132	1130	1119	1120	1121	708
45°	842	837	831	810	798	649
55°	554	537	505	480	479	495
65°	312	275	235	267	286	314
75°	175	152	134	167	193	187
85°	70	62	60	78	79	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1555.9	1551.6	1546.3	1549.5	1552.2
5°	1552.2	1550.0	1543.5	1541.9	1547.3
7.5°	1544.1	1538.6	1532.7	1535.4	1533.3
10°	1531.6	1526.8	1519.2	1519.8	1523.5
12.5°	1516.5	1510.6	1502.5	1504.7	1507.9
15°	1496.6	1487.4	1481.5	1482.0	1487.9
17.5°	1471.2	1464.2	1456.6	1458.2	1460.9
20°	1442.0	1438.3	1427.4	1424.2	1426.9
22.5°	1405.3	1398.3	1392.4	1390.8	1391.3
25°	1363.7	1356.2	1349.2	1344.3	1348.1
27.5°	1315.1	1308.7	1299.5	1297.8	1301.1
30°	1260.1	1255.3	1247.2	1245.0	1249.8
32.5°	1203.9	1195.8	1184.5	1184.5	1185.5
35°	1132.1	1130.5	1119.2	1119.8	1120.8
37.5°	1067.3	1059.8	1053.3	1046.9	1050.0
40°	995.5	986.9	978.2	974.0	972.3
42.5°	918.4	911.8	908.1	892.4	888.6
45°	842.2	836.8	830.9	810.4	798.0
47.5°	764.5	763.4	758.6	722.4	710.0
50°	692.1	690.5	673.2	634.9	622.5
52.5°	623.5	612.8	590.1	552.3	550.2
55°	554.5	537.2	504.8	479.9	478.8
57.5°	481.6	461.1	428.2	414.6	421.7
60°	423.2	391.9	354.2	355.8	367.1
62.5°	362.8	327.7	290.5	306.7	320.1
65°	312.0	274.8	235.4	267.3	285.6
67.5°	267.8	233.2	195.5	238.1	255.9
70°	231.0	203.0	166.3	211.1	231.0
72.5°	201.9	176.0	147.4	189.5	212.8
75°	174.9	151.7	133.9	166.8	192.7
77.5°	151.7	129.0	120.9	147.4	172.7
80°	127.4	106.9	105.8	128.5	147.4
82.5°	99.4	85.3	85.3	107.5	118.8
85°	70.2	61.5	60.0	78.3	79.4
87.5°	36.1	34.6	31.3	41.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)