

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: P219250

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219250
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-LD5-34-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: 3115.5 lumens
Efficiency: N/A
Efficacy: 116.4 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

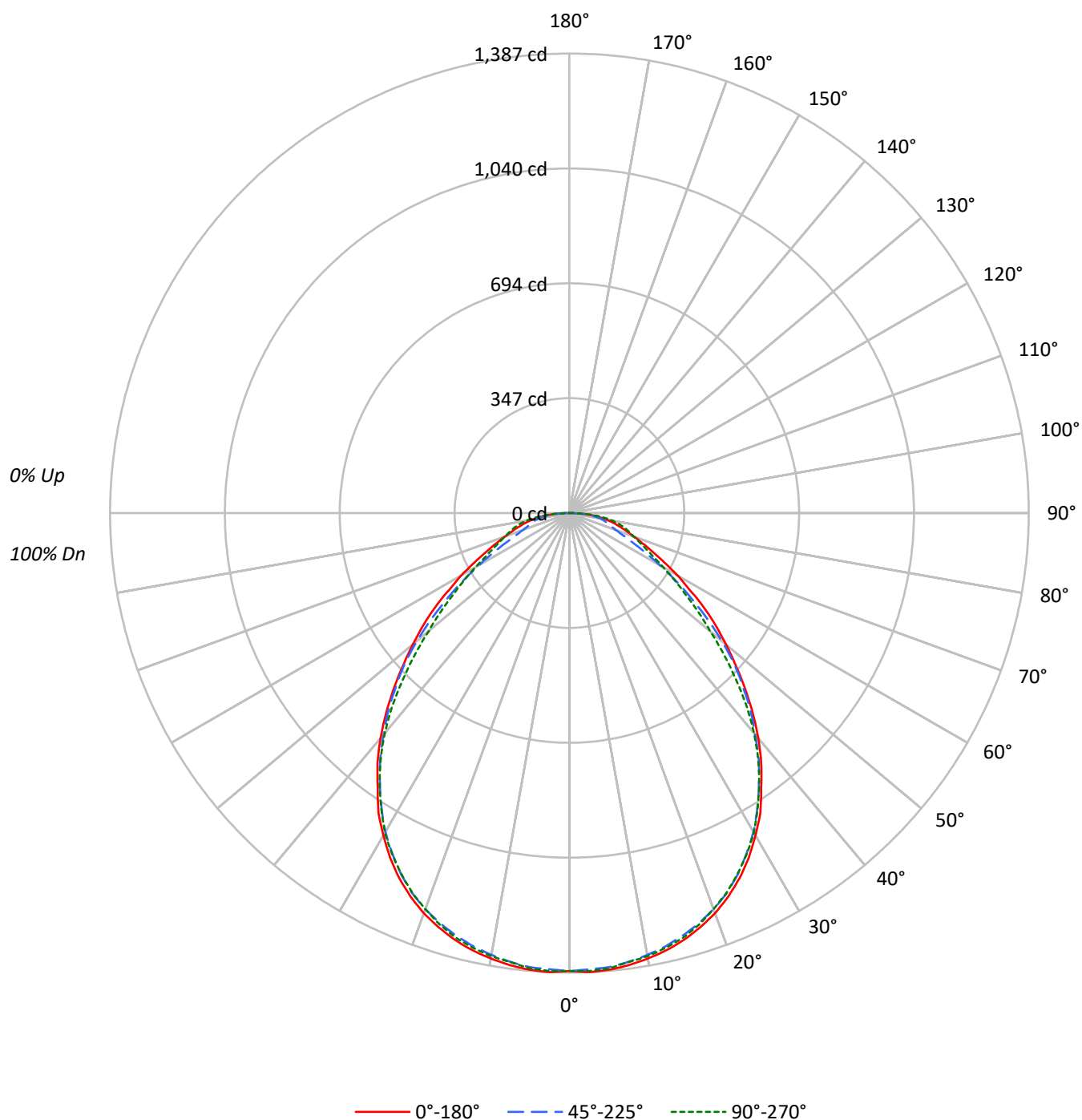
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2117	2117	2117
5°	2127	2116	2121
10°	2124	2106	2112
15°	2116	2094	2103
20°	2095	2074	2073
25°	2055	2033	2031
30°	1987	1966	1971
35°	1887	1865	1868
40°	1774	1744	1733
45°	1626	1604	1541
50°	1470	1430	1322
55°	1320	1202	1140
60°	1156	967	1003
65°	1008	760	923
70°	923	664	923
75°	923	707	1017
80°	1002	833	1159
85°	1100	938	1242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	4.2
10°-20°	373.6	12.0
20°-30°	553.9	17.8
30°-40°	624.9	20.1
40°-50°	565.9	18.2
50°-60°	408.3	13.1
60°-70°	243.8	7.8
70°-80°	150.7	4.8
80°-90°	63.5	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°	1058.4	34.0
0°-40°	1683.3	54.0
0°-60°	2657.5	85.3
0°-90°	3115.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1384	1382	1376	1375	1379	131
15°	1334	1326	1321	1321	1326	376
25°	1216	1209	1203	1198	1202	559
35°	1009	1008	998	998	999	631
45°	751	746	741	722	711	579
55°	494	479	450	428	427	441
65°	278	245	210	238	255	280
75°	156	135	119	149	172	167
85°	63	55	53	70	71	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1387.1	1383.3	1378.5	1381.4	1383.7
5°	1383.7	1381.8	1376.0	1374.6	1379.4
7.5°	1376.6	1371.7	1366.5	1368.8	1366.9
10°	1365.5	1361.1	1354.4	1354.9	1358.3
12.5°	1352.0	1346.7	1339.4	1341.4	1344.3
15°	1334.2	1326.0	1320.7	1321.1	1326.5
17.5°	1311.6	1305.3	1298.6	1300.0	1302.4
20°	1285.6	1282.2	1272.5	1269.7	1272.1
22.5°	1252.8	1246.6	1241.2	1239.9	1240.3
25°	1215.8	1209.0	1202.7	1198.5	1201.8
27.5°	1172.4	1166.7	1158.5	1157.1	1160.0
30°	1123.4	1119.0	1111.8	1109.9	1114.2
32.5°	1073.3	1066.1	1056.0	1056.0	1057.0
35°	1009.3	1007.8	997.7	998.2	999.2
37.5°	951.5	944.8	939.0	933.2	936.1
40°	887.5	879.8	872.1	868.2	866.9
42.5°	818.7	812.9	809.5	795.6	792.2
45°	750.8	746.0	740.7	722.4	711.3
47.5°	681.5	680.6	676.2	644.0	632.9
50°	617.1	615.6	600.1	566.0	554.9
52.5°	555.9	546.3	526.1	492.4	490.5
55°	494.3	478.9	450.0	427.9	426.9
57.5°	429.3	411.0	381.7	369.6	375.9
60°	377.4	349.4	315.8	317.1	327.3
62.5°	323.4	292.1	259.0	273.4	285.4
65°	278.2	245.0	209.8	238.2	254.6
67.5°	238.7	207.9	174.3	212.2	228.1
70°	206.0	181.0	148.2	188.2	206.0
72.5°	180.0	156.9	131.4	168.9	189.6
75°	156.0	135.2	119.4	148.7	171.8
77.5°	135.2	115.0	107.8	131.4	154.0
80°	113.6	95.3	94.4	114.6	131.4
82.5°	88.5	76.1	76.1	95.8	105.9
85°	62.6	54.9	53.4	69.8	70.7
87.5°	32.2	30.8	27.9	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)