

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: P225750

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2735.3 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

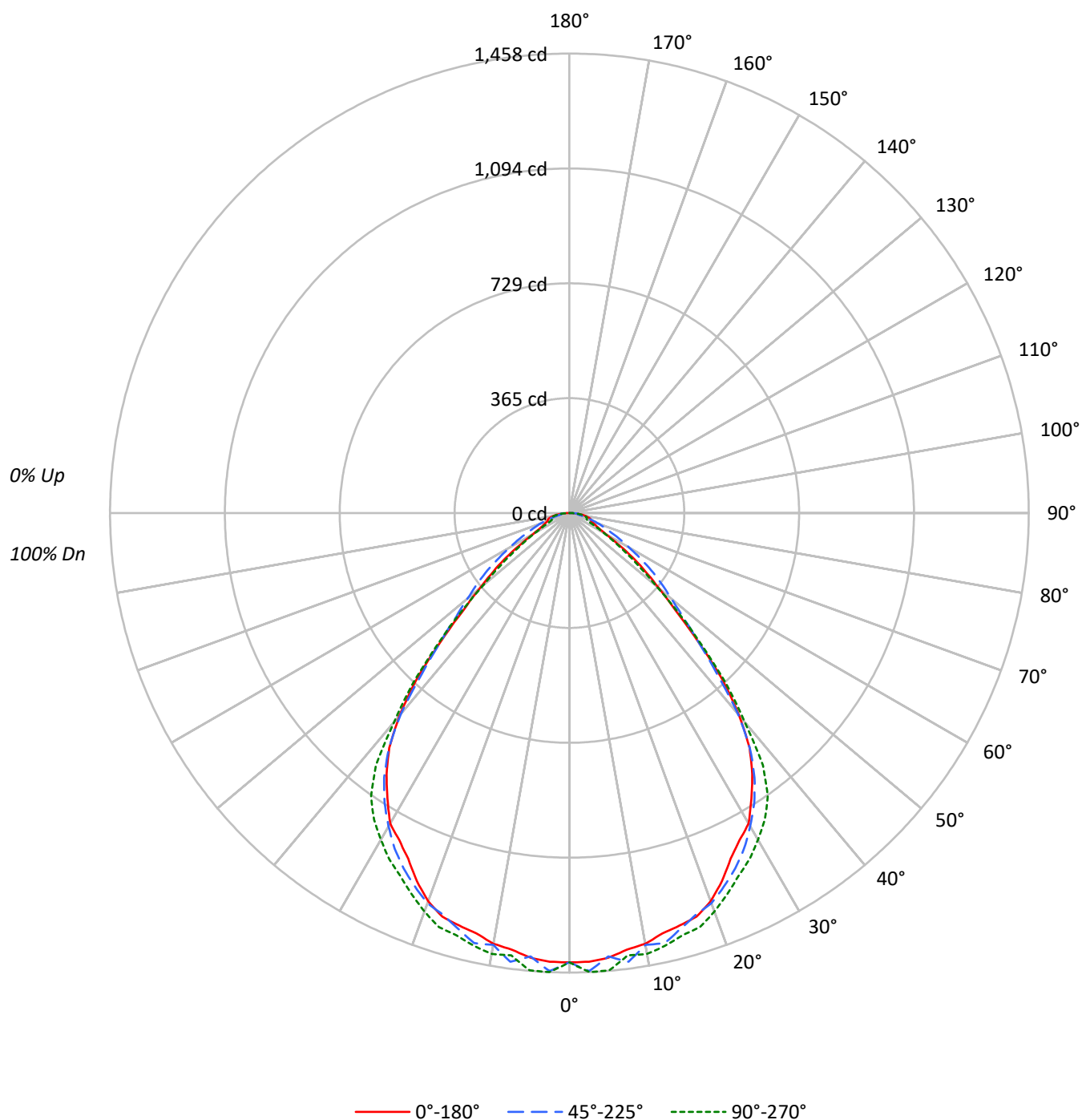
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
R	C																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88							
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77							
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68							
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60							
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54							
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48							
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44							
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40							
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36							
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4565	4565	4565
5°	4554	4539	4682
10°	4512	4525	4619
15°	4491	4526	4598
20°	4468	4489	4586
25°	4277	4398	4488
30°	4206	4244	4426
35°	3956	4006	4291
40°	3505	3481	3619
45°	2618	2624	2697
50°	1843	2097	1786
55°	1360	1770	1219
60°	851	1399	797
65°	693	1109	556
70°	687	923	549
75°	853	677	710
80°	952	535	867
85°	948	992	970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	5.0
10°-20°	386.5	14.1
20°-30°	572.5	20.9
30°-40°	641.3	23.4
40°-50°	471.2	17.2
50°-60°	263.4	9.6
60°-70°	146.8	5.4
70°-80°	86.3	3.2
80°-90°	31.7	1.2
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°	1094.7	40.0
0°-40°	1736.0	63.5
0°-60°	2470.6	90.3
0°-90°	2735.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1416	1443	1412	1441	1456	134
15°	1355	1363	1365	1386	1387	383
25°	1210	1220	1244	1262	1270	561
35°	1012	1012	1025	1071	1098	627
45°	578	625	579	621	596	452
55°	244	296	317	316	218	217
65°	92	162	146	188	73	95
75°	69	97	55	110	57	69
85°	26	38	27	35	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.5	1425.5	1425.5	1425.5	1425.5
2.5°	1424.9	1437.8	1454.6	1456.5	1457.8
5°	1416.5	1443.0	1412.0	1441.0	1456.5
7.5°	1397.2	1413.3	1435.9	1406.8	1415.2
10°	1387.5	1391.4	1391.4	1427.5	1420.4
12.5°	1365.6	1391.4	1397.8	1390.8	1406.2
15°	1354.6	1363.1	1365.0	1385.6	1386.9
17.5°	1342.4	1340.5	1335.9	1350.8	1377.3
20°	1310.9	1303.7	1317.3	1335.4	1345.6
22.5°	1264.5	1266.4	1282.5	1297.4	1308.9
25°	1210.3	1220.0	1244.5	1261.9	1270.2
27.5°	1169.7	1183.9	1200.6	1221.3	1238.0
30°	1137.5	1136.2	1147.8	1177.4	1196.8
32.5°	1075.0	1079.5	1091.7	1127.2	1154.2
35°	1011.8	1012.4	1024.7	1071.1	1097.5
37.5°	939.0	933.8	941.0	991.2	1008.6
40°	838.4	839.7	832.7	868.1	865.6
42.5°	721.1	731.5	694.7	741.1	737.9
45°	578.1	625.2	579.4	620.6	595.5
47.5°	456.3	525.9	487.9	518.2	471.1
50°	369.9	441.5	420.8	434.4	358.4
52.5°	303.5	361.5	368.0	371.2	279.7
55°	243.6	296.5	317.0	316.5	218.4
57.5°	179.8	241.1	264.9	274.6	165.7
60°	132.8	200.4	218.4	239.7	124.4
62.5°	107.0	176.0	180.5	210.1	94.8
65°	91.5	162.4	146.3	187.5	73.4
67.5°	81.2	151.5	119.3	167.5	62.5
70°	73.4	134.7	98.6	150.2	58.6
72.5°	71.6	114.8	76.1	134.0	58.0
75°	68.9	97.3	54.7	110.2	57.4
77.5°	59.3	83.1	39.4	85.1	53.5
80°	51.6	66.4	29.0	63.8	47.0
82.5°	39.9	50.2	25.8	48.4	38.0
85°	25.8	38.0	27.0	34.8	26.4
87.5°	12.2	21.2	19.3	18.7	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)