

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: P225846

Luminaire Tested: **14GR-LD5-28-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A19/156-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

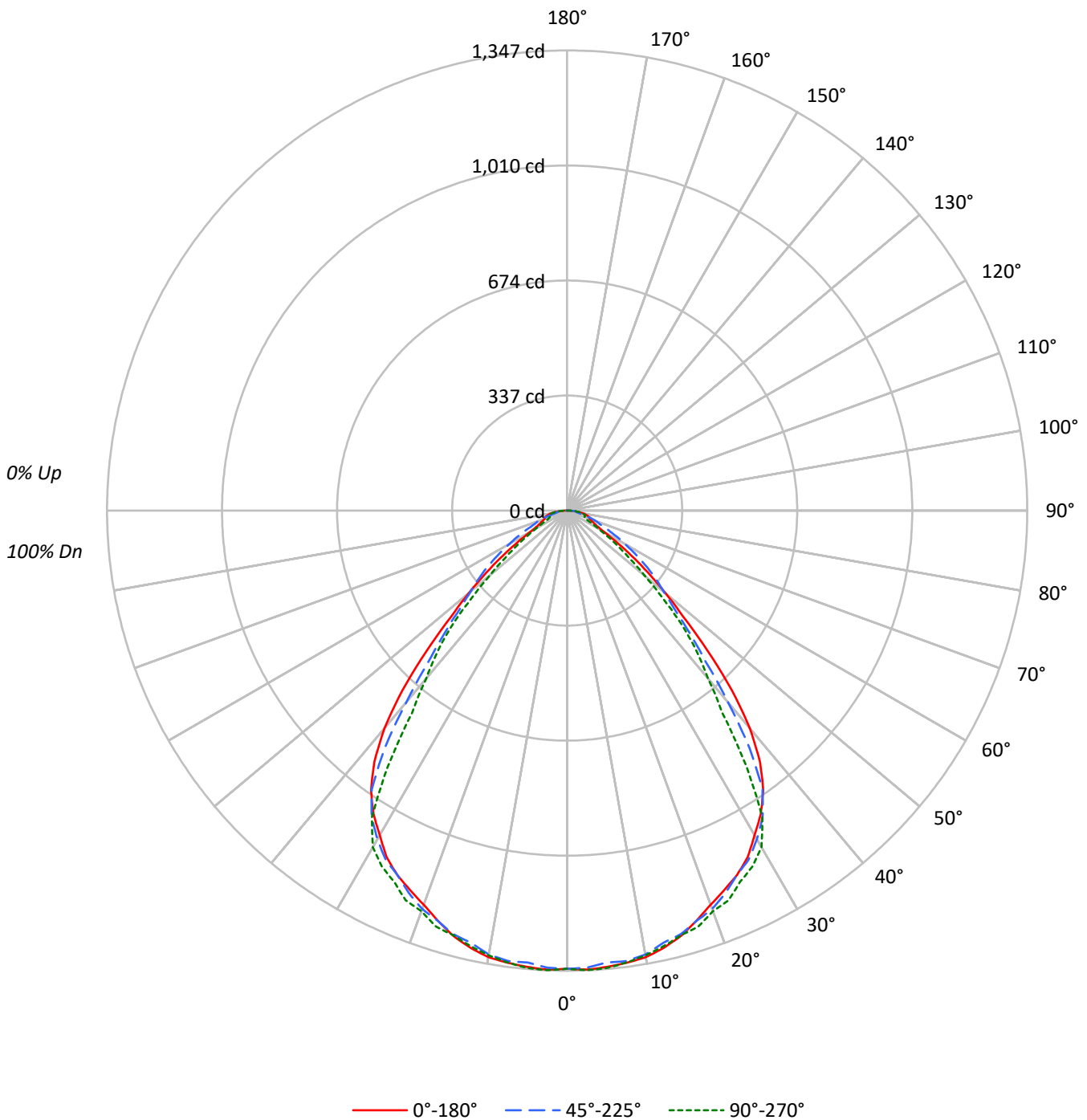
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4520	4520	4520
5°	4535	4492	4545
10°	4542	4514	4523
15°	4496	4480	4490
20°	4402	4450	4474
25°	4375	4373	4457
30°	4269	4320	4426
35°	4116	4100	3767
40°	3655	3226	2824
45°	2773	2413	2284
50°	1968	1931	1550
55°	1346	1648	1065
60°	833	1315	712
65°	686	1013	516
70°	683	882	529
75°	820	631	706
80°	941	582	885
85°	893	1028	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	5.0
10°-20°	363.3	14.4
20°-30°	546.3	21.7
30°-40°	595.5	23.6
40°-50°	417.0	16.5
50°-60°	236.0	9.4
60°-70°	129.2	5.1
70°-80°	78.3	3.1
80°-90°	29.7	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°	1036.8	41.1
0°-40°	1632.4	64.7
0°-60°	2285.4	90.6
0°-90°	2522.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1341	1338	1328	1344	1344	128
15°	1289	1285	1284	1303	1287	362
25°	1177	1179	1176	1203	1199	540
35°	1001	996	997	946	916	617
45°	582	607	506	500	479	452
55°	229	274	281	278	181	210
65°	86	142	127	160	65	88
75°	63	91	48	95	54	65
85°	23	38	27	32	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1344.8	1343.1	1339.1	1347.2	1346.6
5°	1340.8	1338.5	1328.1	1343.7	1343.7
7.5°	1335.1	1329.2	1329.9	1338.5	1334.4
10°	1327.5	1317.7	1319.4	1321.8	1321.8
12.5°	1310.2	1300.9	1296.3	1303.8	1306.1
15°	1288.8	1285.4	1284.2	1302.7	1287.1
17.5°	1258.8	1266.4	1259.3	1274.4	1276.7
20°	1227.6	1242.1	1240.9	1251.3	1247.8
22.5°	1202.2	1211.5	1211.5	1224.1	1234.6
25°	1176.8	1179.1	1176.3	1203.4	1198.7
27.5°	1143.9	1142.1	1151.4	1165.3	1174.5
30°	1097.1	1097.7	1110.4	1128.9	1137.5
32.5°	1054.4	1049.2	1064.8	1072.9	1063.6
35°	1000.7	996.1	996.6	945.9	915.8
37.5°	927.4	931.4	878.2	785.3	746.0
40°	830.9	839.0	733.4	664.0	642.1
42.5°	714.3	716.6	601.1	578.6	564.1
45°	582.0	607.4	506.4	500.0	479.3
47.5°	461.4	508.7	424.4	428.4	378.8
50°	375.4	422.7	368.4	370.1	295.7
52.5°	296.8	343.0	325.1	319.9	232.1
55°	229.2	274.3	280.6	278.3	181.3
57.5°	168.6	217.1	235.6	244.2	139.8
60°	123.6	177.3	195.2	212.5	105.7
62.5°	98.2	153.6	160.0	185.4	82.0
65°	86.0	141.5	127.0	160.5	64.7
67.5°	76.8	134.5	103.4	142.1	56.6
70°	69.3	121.3	89.5	127.0	53.7
72.5°	69.3	106.3	70.4	112.6	54.2
75°	63.0	90.6	48.5	95.3	54.2
77.5°	56.1	77.4	36.4	77.4	50.8
80°	48.5	60.6	30.0	59.5	45.6
82.5°	35.8	45.6	26.0	44.5	36.9
85°	23.1	37.5	26.6	32.3	26.0
87.5°	11.0	19.0	16.7	16.2	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)