

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: P225908

Luminaire Tested: **14GR-LD5-28-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2311.5 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

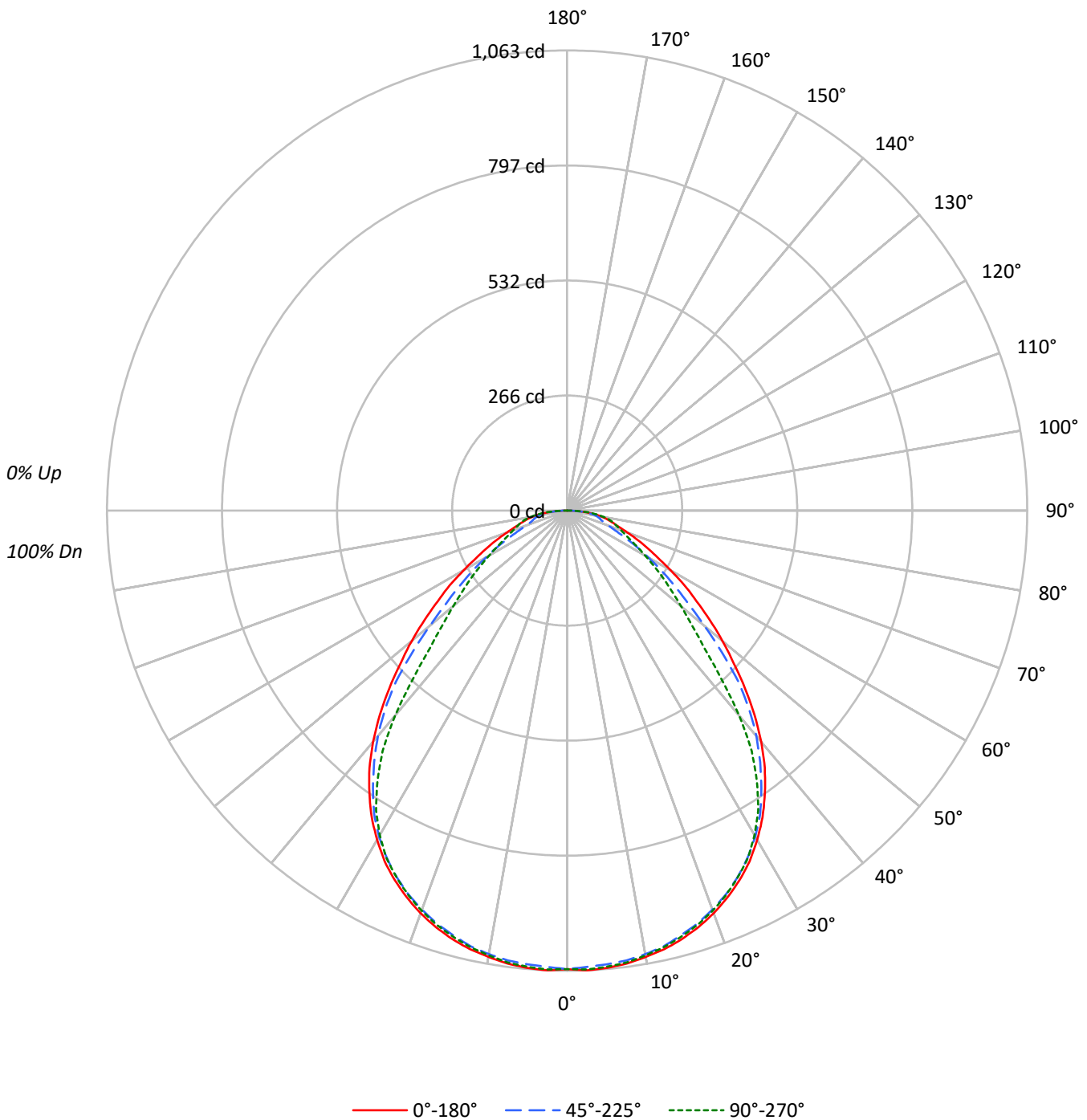
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58					56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46					44				
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38					36				
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34					33				
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3569	3569	3569
5°	3586	3559	3578
10°	3582	3560	3569
15°	3575	3544	3555
20°	3550	3517	3527
25°	3503	3469	3471
30°	3417	3382	3367
35°	3277	3218	3145
40°	3068	2990	2721
45°	2771	2666	2126
50°	2457	2164	1798
55°	2144	1776	1587
60°	1860	1462	1400
65°	1630	1173	1292
70°	1455	994	1301
75°	1419	1048	1453
80°	1574	1321	1667
85°	1639	1411	1952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	4.3
10°-20°	287.9	12.5
20°-30°	430.7	18.6
30°-40°	486.2	21.0
40°-50°	412.4	17.8
50°-60°	279.1	12.1
60°-70°	166.6	7.2
70°-80°	104.3	4.5
80°-90°	43.9	1.9
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°	819.1	35.4
0°-40°	1305.3	56.5
0°-60°	1996.8	86.4
0°-90°	2311.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1060	1057	1052	1060	1058	101
15°	1025	1023	1016	1023	1019	289
25°	942	939	933	937	934	433
35°	797	791	782	775	764	496
45°	581	584	559	479	446	448
55°	365	348	302	271	270	329
65°	204	170	147	157	162	204
75°	109	97	80	106	112	117
85°	42	40	36	47	50	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.2	1059.2	1059.2	1059.2	1059.2
2.5°	1063.0	1059.8	1054.9	1061.4	1060.9
5°	1060.3	1057.1	1052.3	1059.8	1057.7
7.5°	1055.5	1052.8	1048.0	1054.9	1052.8
10°	1046.9	1044.7	1040.5	1046.4	1043.1
12.5°	1037.7	1036.2	1030.8	1036.2	1032.9
15°	1024.9	1022.7	1015.8	1022.7	1019.0
17.5°	1008.8	1006.1	1000.2	1006.1	1002.9
20°	990.0	986.8	980.9	986.8	983.6
22.5°	967.4	964.8	959.4	964.8	960.5
25°	942.2	939.0	933.1	937.4	933.7
27.5°	913.2	908.9	903.5	906.8	904.6
30°	878.3	873.0	869.2	869.2	865.4
32.5°	840.2	836.5	830.0	826.3	821.5
35°	796.7	791.3	782.2	775.2	764.5
37.5°	750.0	743.6	732.3	714.5	700.1
40°	697.4	689.3	679.7	644.8	618.5
42.5°	641.0	639.4	622.7	563.2	526.6
45°	581.4	583.6	559.4	479.4	446.1
47.5°	521.3	528.8	484.8	406.5	389.3
50°	468.7	471.4	412.8	352.8	343.0
52.5°	414.5	410.2	352.2	310.3	303.4
55°	365.0	347.9	302.3	270.6	270.1
57.5°	321.6	289.9	258.2	234.6	237.3
60°	276.0	240.5	216.9	204.0	207.7
62.5°	235.7	201.9	180.9	177.2	183.6
65°	204.5	169.7	147.1	156.8	162.1
67.5°	175.0	145.5	119.7	142.8	144.9
70°	147.7	126.2	100.9	131.6	132.1
72.5°	125.1	111.6	87.5	119.2	120.8
75°	109.0	97.2	80.5	106.3	111.6
77.5°	95.5	83.2	74.6	91.8	100.9
80°	81.1	67.1	68.1	76.8	85.9
82.5°	62.2	52.0	54.2	63.3	69.8
85°	42.4	40.3	36.5	47.2	50.5
87.5°	22.6	21.5	18.8	26.8	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)