

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: P393030

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-28-UNV-L82765-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2690.1 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

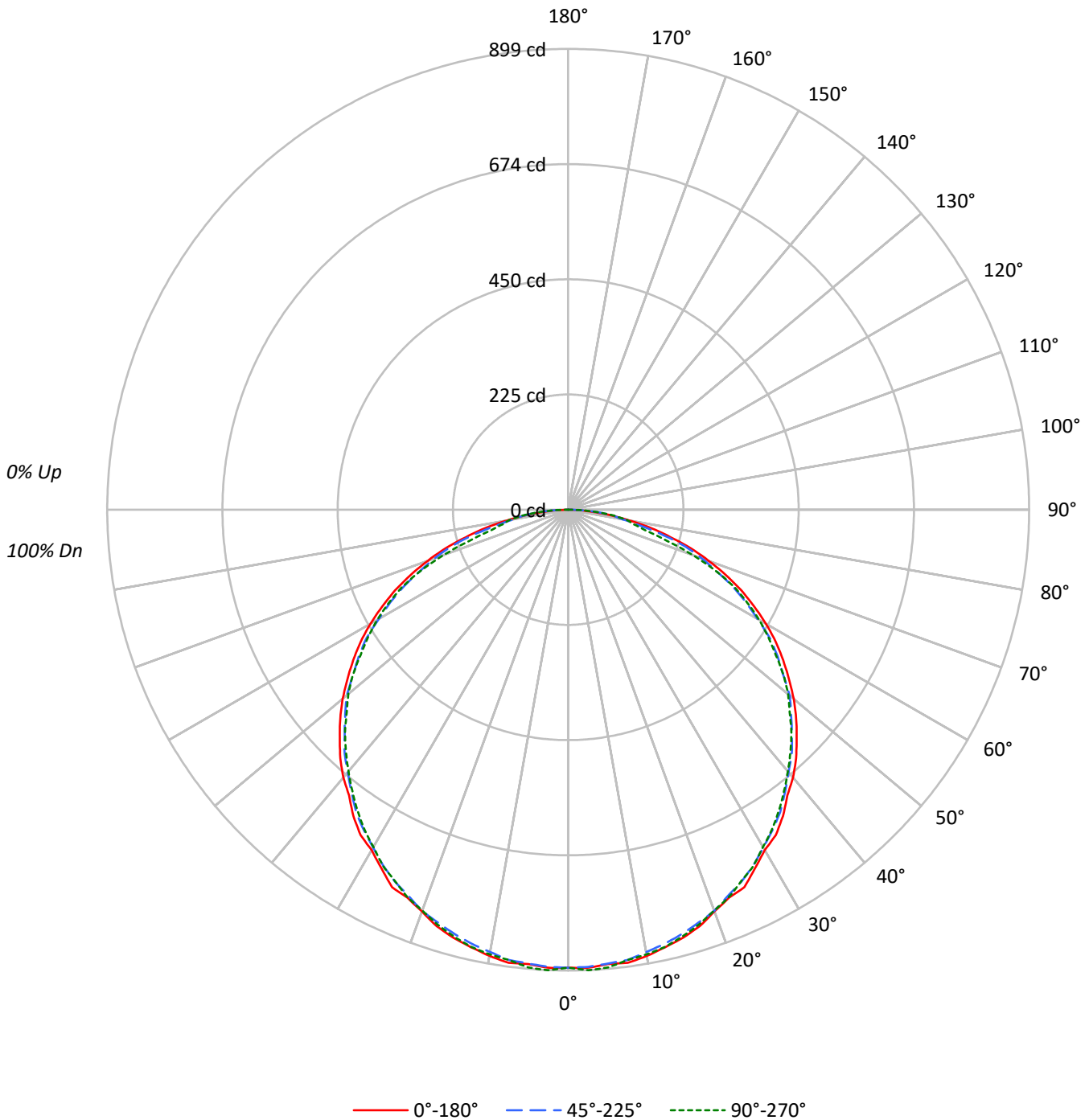
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2404	2404	2404
5°	2403	2401	2421
10°	2415	2394	2407
15°	2409	2388	2401
20°	2388	2385	2383
25°	2413	2376	2373
30°	2382	2364	2361
35°	2398	2367	2354
40°	2395	2348	2341
45°	2398	2346	2343
50°	2404	2359	2344
55°	2401	2337	2320
60°	2397	2293	2314
65°	2370	2248	2278
70°	2293	2179	2035
75°	2150	2010	1620
80°	1878	1655	1804
85°	1426	1812	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	242.9	9.0
20°-30°	369.7	13.7
30°-40°	450.9	16.8
40°-50°	478.4	17.8
50°-60°	447.9	16.6
60°-70°	353.9	13.2
70°-80°	200.3	7.4
80°-90°	61.4	2.3
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°	697.3	25.9
0°-40°	1148.2	42.7
0°-60°	2074.5	77.1
0°-90°	2690.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	890	891	889	894	896	85
15°	865	858	857	862	862	244
25°	813	804	800	798	799	372
35°	730	729	720	713	717	456
45°	630	627	616	614	616	487
55°	512	509	498	498	494	457
65°	372	367	353	358	358	367
75°	207	201	193	168	156	219
85°	46	50	59	59	59	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.5	893.5	893.5	893.5	893.5
2.5°	894.5	895.5	892.6	893.5	899.3
5°	889.7	890.7	888.7	894.5	896.4
7.5°	891.6	886.8	885.8	887.8	885.8
10°	883.9	883.0	876.2	878.2	881.0
12.5°	874.3	872.4	867.6	872.4	873.3
15°	864.7	858.0	857.0	861.8	861.8
17.5°	852.2	852.2	844.5	844.5	848.3
20°	833.9	836.8	832.9	832.9	832.0
22.5°	819.5	817.6	814.7	822.4	818.5
25°	812.7	804.1	800.2	798.3	799.3
27.5°	788.7	790.6	782.0	778.1	782.9
30°	766.6	765.6	760.8	762.7	759.8
32.5°	753.1	744.5	741.6	739.6	739.6
35°	730.0	729.1	720.4	712.7	716.6
37.5°	702.1	702.1	694.4	692.5	691.6
40°	681.9	675.2	668.5	669.4	666.5
42.5°	657.9	653.1	645.4	637.7	641.5
45°	630.0	627.1	616.5	613.6	615.6
47.5°	603.1	596.3	589.6	589.6	585.8
50°	574.2	568.4	563.6	557.9	559.8
52.5°	542.5	541.5	528.0	525.2	529.0
55°	511.7	508.8	498.2	498.2	494.4
57.5°	480.0	475.1	466.5	463.6	462.6
60°	445.3	439.6	426.1	423.2	429.9
62.5°	408.8	403.0	390.5	391.5	394.4
65°	372.2	367.4	353.0	357.8	357.8
67.5°	332.8	325.1	312.6	314.5	311.6
70°	291.4	286.6	277.0	266.4	258.7
72.5°	251.0	245.3	240.5	215.5	202.9
75°	206.8	201.0	193.3	168.3	155.8
77.5°	166.4	161.6	144.3	127.0	129.8
80°	121.2	127.0	106.8	113.5	116.4
82.5°	82.7	83.7	87.5	92.3	90.4
85°	46.2	50.0	58.7	58.7	58.7
87.5°	17.3	25.0	26.0	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)