

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: P393032

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393032
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 (5700K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695.7 lumens
Efficiency: N/A
Efficacy: 94.9 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

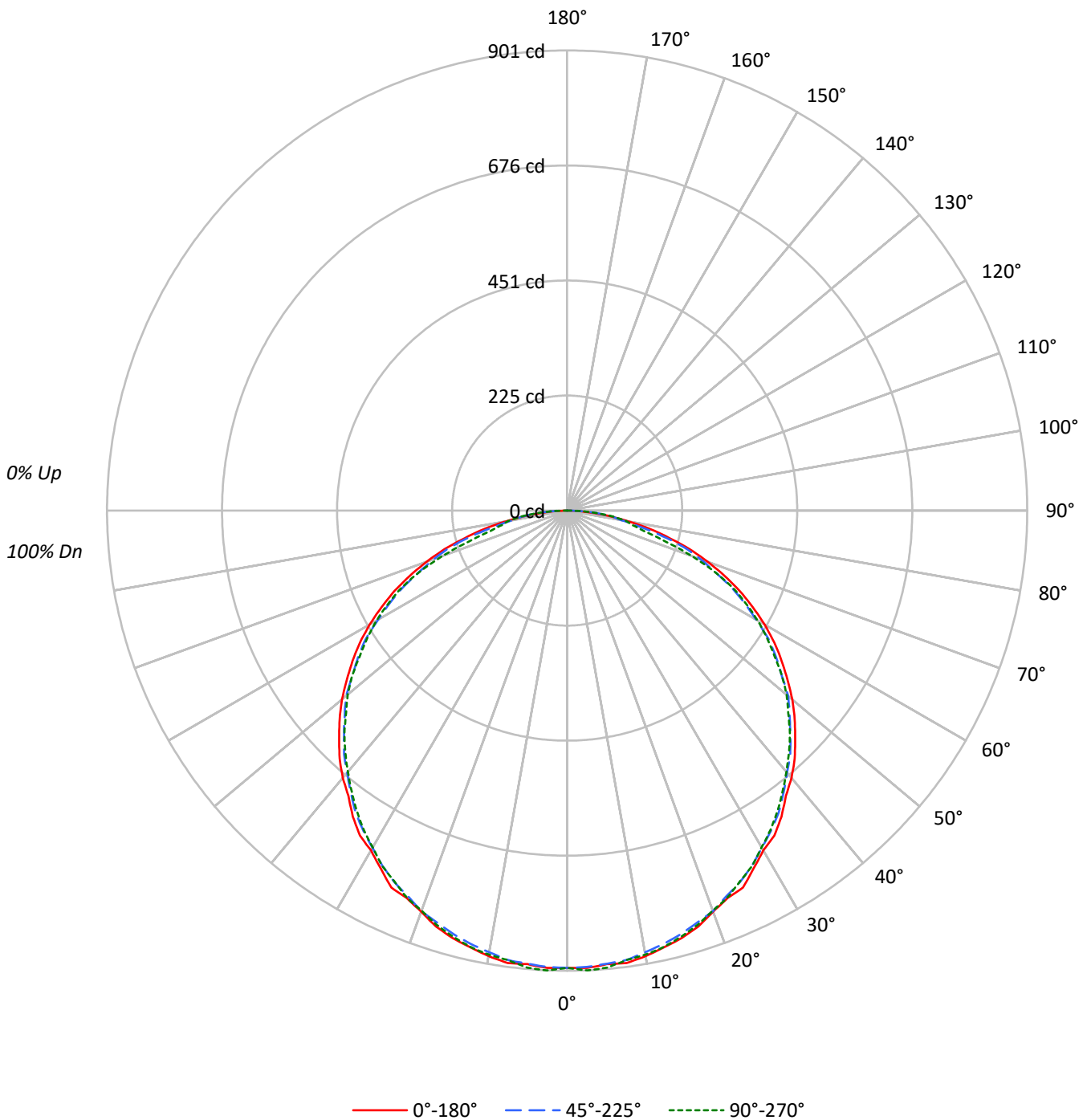
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2410	2410	2410
5°	2408	2406	2427
10°	2420	2399	2413
15°	2414	2393	2406
20°	2393	2390	2387
25°	2418	2381	2378
30°	2387	2369	2366
35°	2403	2371	2359
40°	2400	2353	2346
45°	2402	2351	2347
50°	2409	2364	2348
55°	2406	2343	2324
60°	2401	2298	2319
65°	2375	2252	2283
70°	2297	2184	2040
75°	2154	2014	1623
80°	1881	1658	1807
85°	1430	1815	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.2
10°-20°	243.3	9.0
20°-30°	370.5	13.7
30°-40°	451.9	16.8
40°-50°	479.4	17.8
50°-60°	448.8	16.6
60°-70°	354.6	13.2
70°-80°	200.7	7.4
80°-90°	61.5	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°	698.8	25.9
0°-40°	1150.6	42.7
0°-60°	2078.8	77.1
0°-90°	2695.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	892	892	891	896	898	85
15°	866	860	859	864	864	244
25°	814	806	802	800	801	373
35°	732	731	722	714	718	457
45°	631	628	618	615	617	488
55°	513	510	499	499	495	458
65°	373	368	354	358	358	368
75°	207	201	194	169	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°	895.4	895.4	895.4	895.4	895.4
2.5°	896.4	897.3	894.4	895.4	901.2
5°	891.5	892.5	890.6	896.4	898.3
7.5°	893.5	888.6	887.7	889.6	887.7
10°	885.7	884.8	878.0	880.0	882.9
12.5°	876.1	874.2	869.4	874.2	875.1
15°	866.5	859.7	858.8	863.6	863.6
17.5°	853.9	853.9	846.2	846.2	850.1
20°	835.6	838.5	834.7	834.7	833.7
22.5°	821.2	819.2	816.4	824.1	820.2
25°	814.4	805.8	801.9	800.0	800.9
27.5°	790.3	792.3	783.6	779.7	784.5
30°	768.2	767.2	762.4	764.3	761.4
32.5°	754.7	746.0	743.1	741.2	741.2
35°	731.5	730.6	721.9	714.2	718.0
37.5°	703.6	703.6	695.9	693.9	693.0
40°	683.3	676.6	669.9	670.8	667.9
42.5°	659.3	654.4	646.7	639.0	642.9
45°	631.3	628.4	617.8	614.9	616.8
47.5°	604.3	597.6	590.8	590.8	587.0
50°	575.4	569.6	564.8	559.0	560.9
52.5°	543.6	542.6	529.1	526.2	530.1
55°	512.8	509.9	499.3	499.3	495.4
57.5°	480.9	476.1	467.5	464.6	463.6
60°	446.2	440.5	427.0	424.1	430.8
62.5°	409.6	403.8	391.3	392.3	395.2
65°	373.0	368.2	353.7	358.5	358.5
67.5°	333.5	325.8	313.2	315.2	312.3
70°	292.0	287.2	277.6	267.0	259.3
72.5°	251.6	245.8	241.0	215.9	203.4
75°	207.2	201.4	193.7	168.7	156.1
77.5°	166.7	161.9	144.6	127.2	130.1
80°	121.4	127.2	107.0	113.7	116.6
82.5°	82.9	83.9	87.7	92.5	90.6
85°	46.3	50.1	58.8	58.8	58.8
87.5°	17.3	25.1	26.0	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)