

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: P393051

Luminaire Tested: **14EN-LD2-28-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393051
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-L93050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2298.3 lumens
Efficiency: N/A
Efficacy: 79.8 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

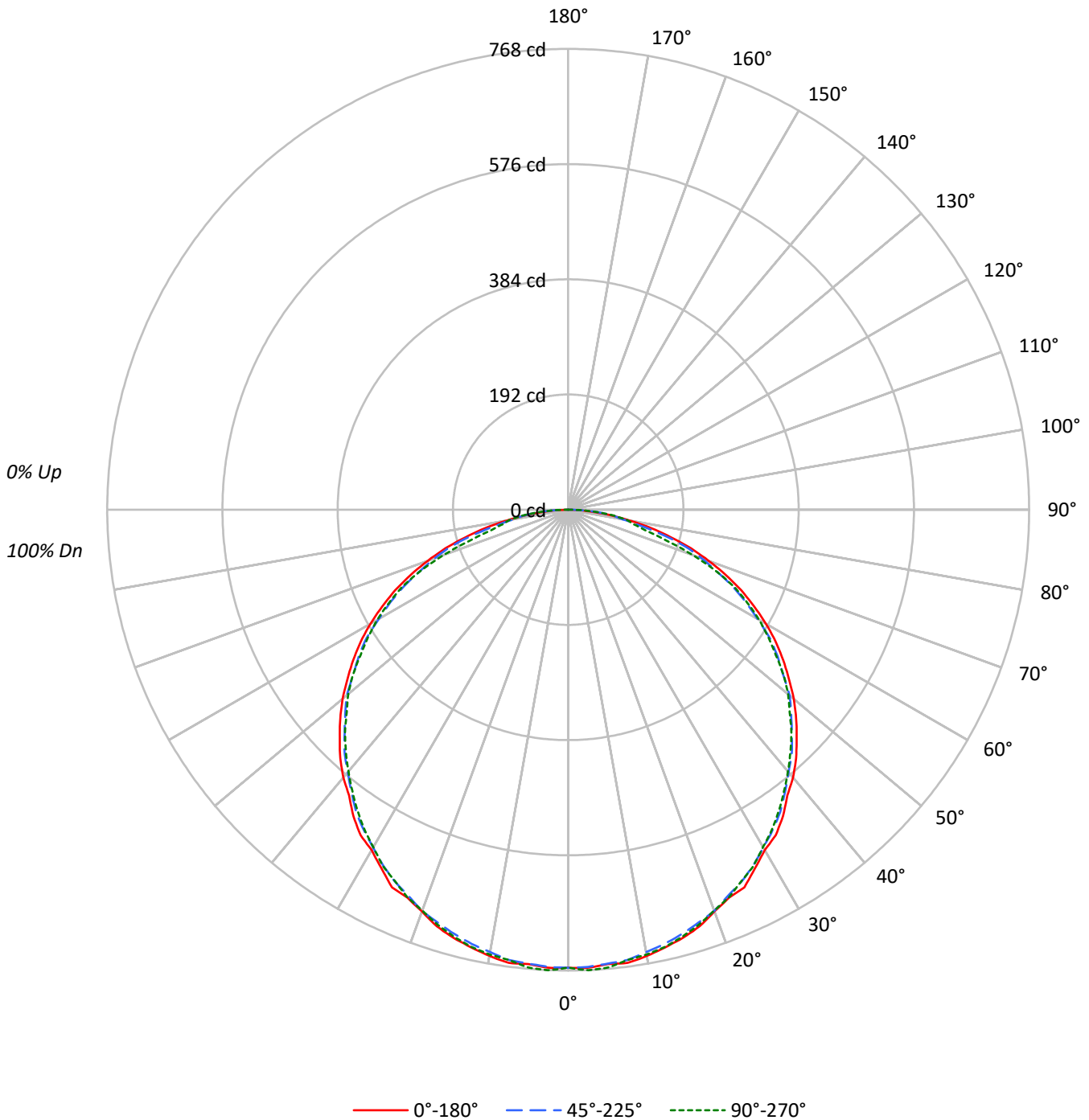
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2054	2054	2054
5°	2053	2051	2069
10°	2064	2046	2057
15°	2058	2040	2051
20°	2040	2038	2036
25°	2062	2030	2028
30°	2035	2020	2017
35°	2049	2022	2011
40°	2047	2006	2001
45°	2048	2004	2001
50°	2054	2016	2002
55°	2051	1997	1982
60°	2048	1959	1977
65°	2025	1920	1947
70°	1959	1862	1739
75°	1837	1718	1384
80°	1604	1413	1540
85°	1216	1547	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.2
10°-20°	207.5	9.0
20°-30°	315.9	13.7
30°-40°	385.2	16.8
40°-50°	408.8	17.8
50°-60°	382.6	16.6
60°-70°	302.3	13.2
70°-80°	171.1	7.4
80°-90°	52.5	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°	595.8	25.9
0°-40°	981.0	42.7
0°-60°	1772.4	77.1
0°-90°	2298.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	760	761	759	764	766	73
15°	739	733	732	736	736	208
25°	694	687	684	682	683	318
35°	624	623	616	609	612	389
45°	538	536	527	524	526	416
55°	437	435	426	426	422	391
65°	318	314	302	306	306	313
75°	177	172	165	144	133	187
85°	39	43	50	50	50	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.4	763.4	763.4	763.4	763.4
2.5°	764.2	765.0	762.6	763.4	768.3
5°	760.1	760.9	759.3	764.2	765.9
7.5°	761.8	757.6	756.8	758.5	756.8
10°	755.2	754.4	748.6	750.3	752.7
12.5°	747.0	745.3	741.2	745.3	746.1
15°	738.7	733.0	732.2	736.3	736.3
17.5°	728.1	728.1	721.5	721.5	724.8
20°	712.5	714.9	711.6	711.6	710.8
22.5°	700.1	698.5	696.0	702.6	699.3
25°	694.4	687.0	683.7	682.0	682.9
27.5°	673.8	675.5	668.1	664.8	668.9
30°	654.9	654.1	650.0	651.6	649.2
32.5°	643.4	636.0	633.6	631.9	631.9
35°	623.7	622.9	615.5	608.9	612.2
37.5°	599.9	599.9	593.3	591.7	590.8
40°	582.6	576.9	571.1	571.9	569.5
42.5°	562.1	558.0	551.4	544.8	548.1
45°	538.2	535.8	526.7	524.3	525.9
47.5°	515.2	509.5	503.7	503.7	500.4
50°	490.6	485.7	481.5	476.6	478.3
52.5°	463.5	462.6	451.1	448.7	452.0
55°	437.2	434.7	425.7	425.7	422.4
57.5°	410.1	405.9	398.5	396.1	395.3
60°	380.5	375.5	364.0	361.6	367.3
62.5°	349.2	344.3	333.6	334.5	336.9
65°	318.0	313.9	301.6	305.7	305.7
67.5°	284.3	277.7	267.1	268.7	266.2
70°	249.0	244.9	236.7	227.6	221.0
72.5°	214.5	209.5	205.4	184.1	173.4
75°	176.7	171.7	165.2	143.8	133.1
77.5°	142.2	138.1	123.3	108.5	110.9
80°	103.5	108.5	91.2	97.0	99.4
82.5°	70.7	71.5	74.8	78.9	77.2
85°	39.4	42.7	50.1	50.1	50.1
87.5°	14.8	21.4	22.2	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)