

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: P393046

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393046
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-L92765-W2A-1-U (4500K)
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: 2297.6 lumens
Efficiency: N/A
Efficacy: 80.1 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

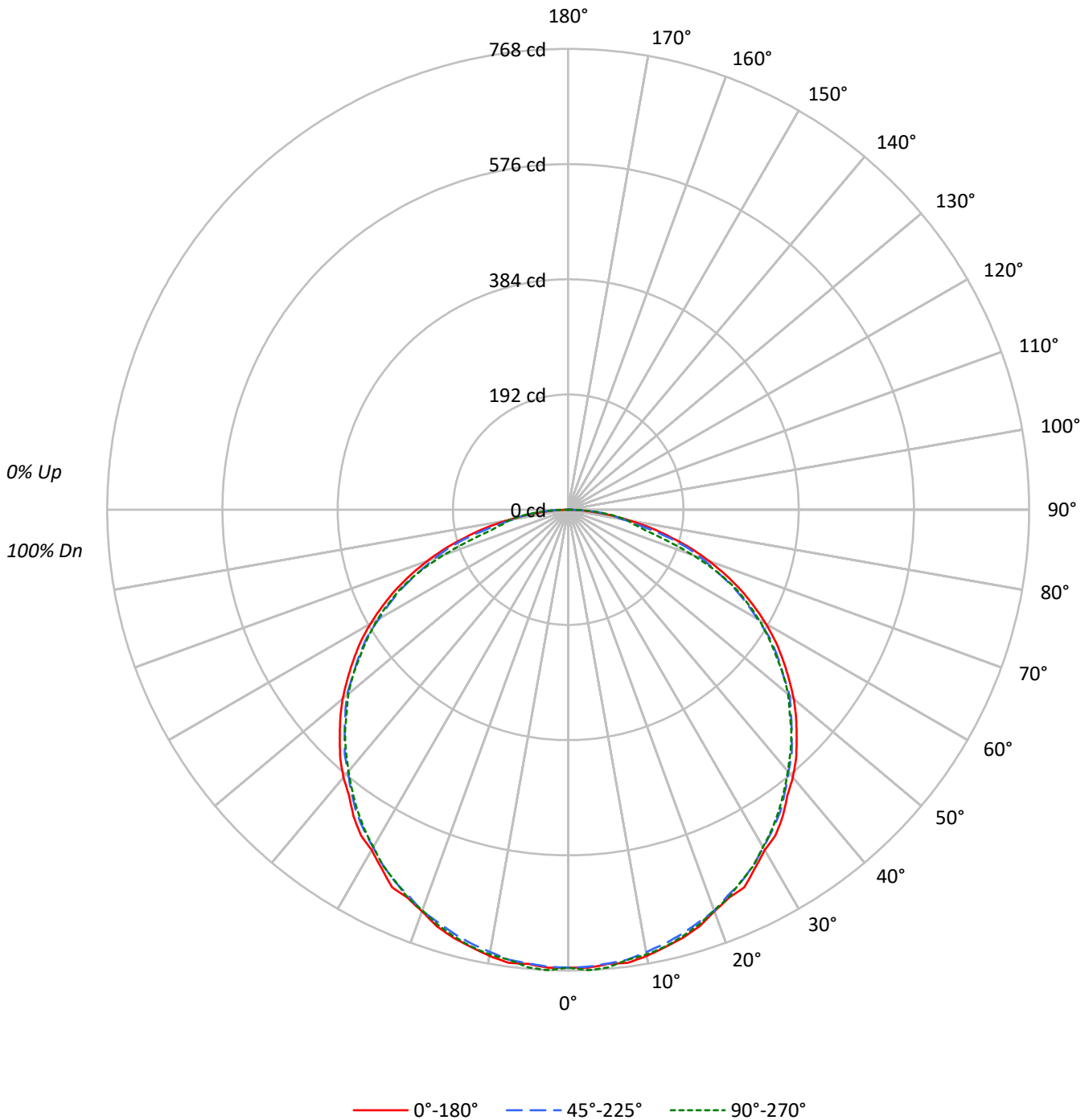
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2054	2054	2054
5°	2053	2051	2068
10°	2063	2045	2056
15°	2057	2039	2051
20°	2040	2037	2035
25°	2061	2029	2027
30°	2034	2019	2017
35°	2048	2021	2010
40°	2046	2005	2000
45°	2048	2004	2001
50°	2053	2015	2002
55°	2050	1996	1981
60°	2047	1958	1976
65°	2024	1920	1946
70°	1958	1862	1739
75°	1836	1717	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°	207.4	9.0
20°-30°	315.8	13.7
30°-40°	385.1	16.8
40°-50°	408.6	17.8
50°-60°	382.5	16.6
60°-70°	302.2	13.2
70°-80°	171.0	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°	595.6	25.9
0°-40°	980.7	42.7
0°-60°	1771.8	77.1
0°-90°	2297.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.6	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°	738	733	732	736	736	208
25°	694	687	684	682	683	318
35°	624	623	615	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°	763.2	763.2	763.2	763.2	763.2
2.5°	764.0	764.8	762.3	763.2	768.1
5°	759.9	760.7	759.1	764.0	765.6
7.5°	761.5	757.4	756.6	758.2	756.6
10°	755.0	754.1	748.4	750.0	752.5
12.5°	746.7	745.1	741.0	745.1	745.9
15°	738.5	732.8	731.9	736.1	736.1
17.5°	727.8	727.8	721.3	721.3	724.6
20°	712.2	714.7	711.4	711.4	710.6
22.5°	699.9	698.3	695.8	702.4	699.1
25°	694.2	686.8	683.5	681.8	682.7
27.5°	673.6	675.3	667.9	664.6	668.7
30°	654.7	653.9	649.8	651.4	649.0
32.5°	643.2	635.8	633.4	631.7	631.7
35°	623.5	622.7	615.3	608.7	612.0
37.5°	599.7	599.7	593.1	591.5	590.7
40°	582.4	576.7	570.9	571.8	569.3
42.5°	561.9	557.8	551.2	544.6	547.9
45°	538.1	535.6	526.6	524.1	525.8
47.5°	515.1	509.3	503.6	503.6	500.3
50°	490.4	485.5	481.4	476.5	478.1
52.5°	463.3	462.5	451.0	448.5	451.8
55°	437.0	434.6	425.5	425.5	422.2
57.5°	409.9	405.8	398.4	396.0	395.1
60°	380.4	375.4	363.9	361.5	367.2
62.5°	349.1	344.2	333.5	334.3	336.8
65°	317.9	313.8	301.5	305.6	305.6
67.5°	284.2	277.7	267.0	268.6	266.2
70°	248.9	244.8	236.6	227.6	221.0
72.5°	214.4	209.5	205.4	184.0	173.3
75°	176.6	171.7	165.1	143.8	133.1
77.5°	142.1	138.0	123.2	108.4	110.9
80°	103.5	108.4	91.2	96.9	99.4
82.5°	70.6	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)