

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: P393043

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393043
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 (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: 2165.2 lumens
Efficiency: N/A
Efficacy: 75.7 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

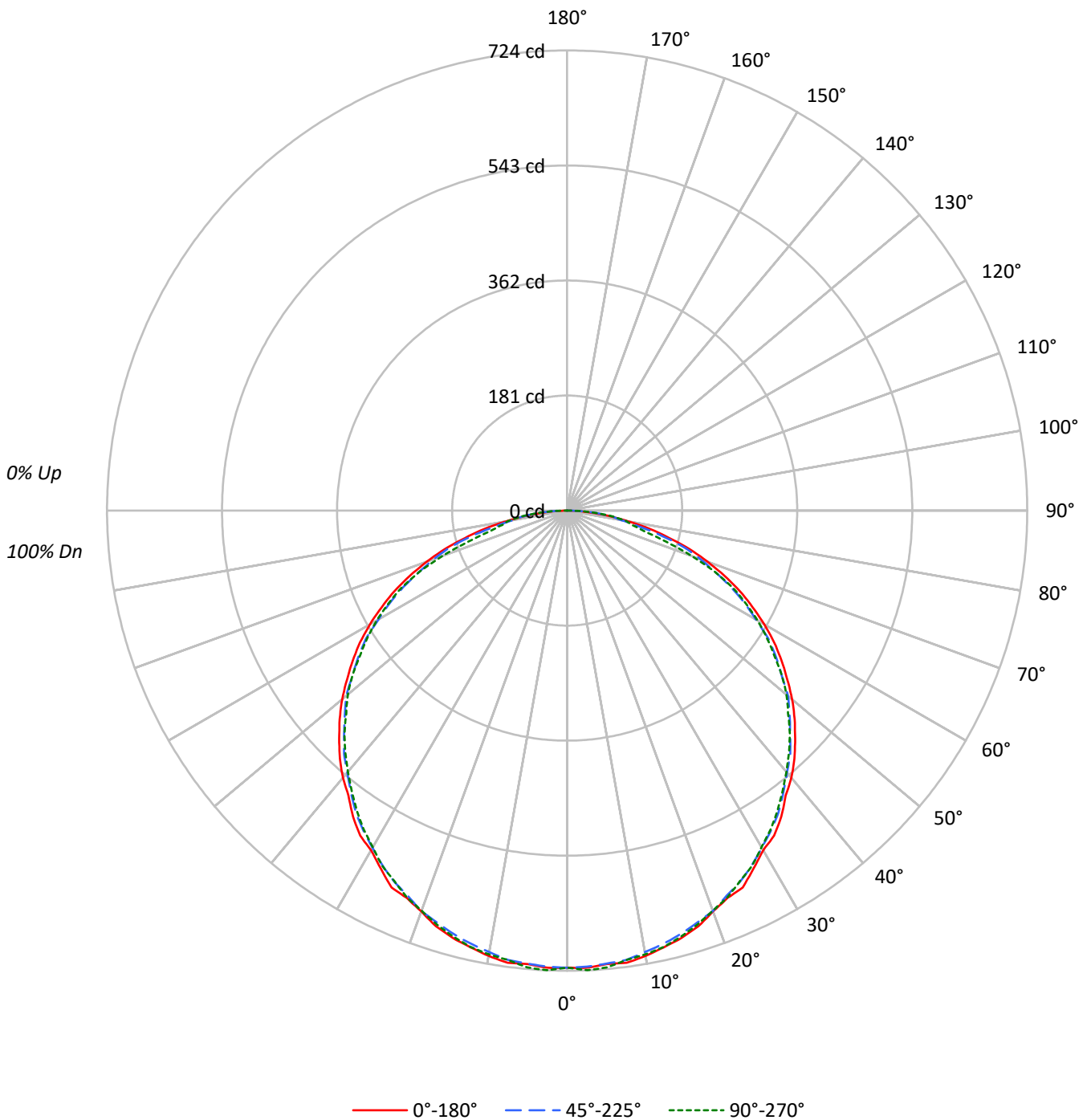
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1935	1935	1935
5°	1934	1932	1949
10°	1944	1927	1938
15°	1939	1922	1932
20°	1922	1920	1918
25°	1942	1912	1910
30°	1917	1903	1900
35°	1930	1905	1895
40°	1928	1890	1885
45°	1930	1888	1886
50°	1935	1899	1886
55°	1932	1881	1867
60°	1929	1846	1862
65°	1908	1809	1834
70°	1846	1755	1638
75°	1730	1618	1304
80°	1511	1331	1452
85°	1149	1457	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.2
10°-20°	195.5	9.0
20°-30°	297.6	13.7
30°-40°	362.9	16.8
40°-50°	385.1	17.8
50°-60°	360.5	16.6
60°-70°	284.8	13.2
70°-80°	161.2	7.4
80°-90°	49.4	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°	561.3	25.9
0°-40°	924.2	42.7
0°-60°	1669.7	77.1
0°-90°	2165.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2165.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	716	717	715	720	722	68
15°	696	690	690	694	694	196
25°	654	647	644	642	643	299
35°	588	587	580	574	577	367
45°	507	505	496	494	496	392
55°	412	410	401	401	398	368
65°	300	296	284	288	288	295
75°	166	162	156	136	125	176
85°	37	40	47	47	47	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.2	719.2	719.2	719.2	719.2
2.5°	720.0	720.7	718.4	719.2	723.8
5°	716.1	716.9	715.3	720.0	721.5
7.5°	717.6	713.8	713.0	714.5	713.0
10°	711.4	710.7	705.3	706.8	709.1
12.5°	703.7	702.2	698.3	702.2	702.9
15°	696.0	690.5	689.8	693.6	693.6
17.5°	685.9	685.9	679.7	679.7	682.8
20°	671.2	673.5	670.4	670.4	669.6
22.5°	659.6	658.0	655.7	661.9	658.8
25°	654.2	647.2	644.1	642.5	643.3
27.5°	634.8	636.4	629.4	626.3	630.2
30°	617.0	616.2	612.4	613.9	611.6
32.5°	606.2	599.2	596.9	595.3	595.3
35°	587.6	586.8	579.8	573.6	576.7
37.5°	565.1	565.1	558.9	557.4	556.6
40°	548.9	543.5	538.0	538.8	536.5
42.5°	529.5	525.7	519.5	513.3	516.4
45°	507.1	504.7	496.2	493.9	495.5
47.5°	485.4	480.0	474.6	474.6	471.5
50°	462.2	457.5	453.7	449.0	450.6
52.5°	436.6	435.8	425.0	422.7	425.8
55°	411.9	409.5	401.0	401.0	397.9
57.5°	386.3	382.4	375.5	373.1	372.4
60°	358.4	353.8	343.0	340.6	346.0
62.5°	329.0	324.4	314.3	315.1	317.4
65°	299.6	295.7	284.1	288.0	288.0
67.5°	267.9	261.7	251.6	253.1	250.8
70°	234.6	230.7	223.0	214.4	208.2
72.5°	202.1	197.4	193.5	173.4	163.3
75°	166.4	161.8	155.6	135.5	125.4
77.5°	133.9	130.1	116.1	102.2	104.5
80°	97.5	102.2	85.9	91.4	93.7
82.5°	66.6	67.4	70.4	74.3	72.8
85°	37.2	40.3	47.2	47.2	47.2
87.5°	13.9	20.1	20.9	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)