

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: P393042

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393042
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 (2700K)
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: 2099.1 lumens
Efficiency: N/A
Efficacy: 73.7 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

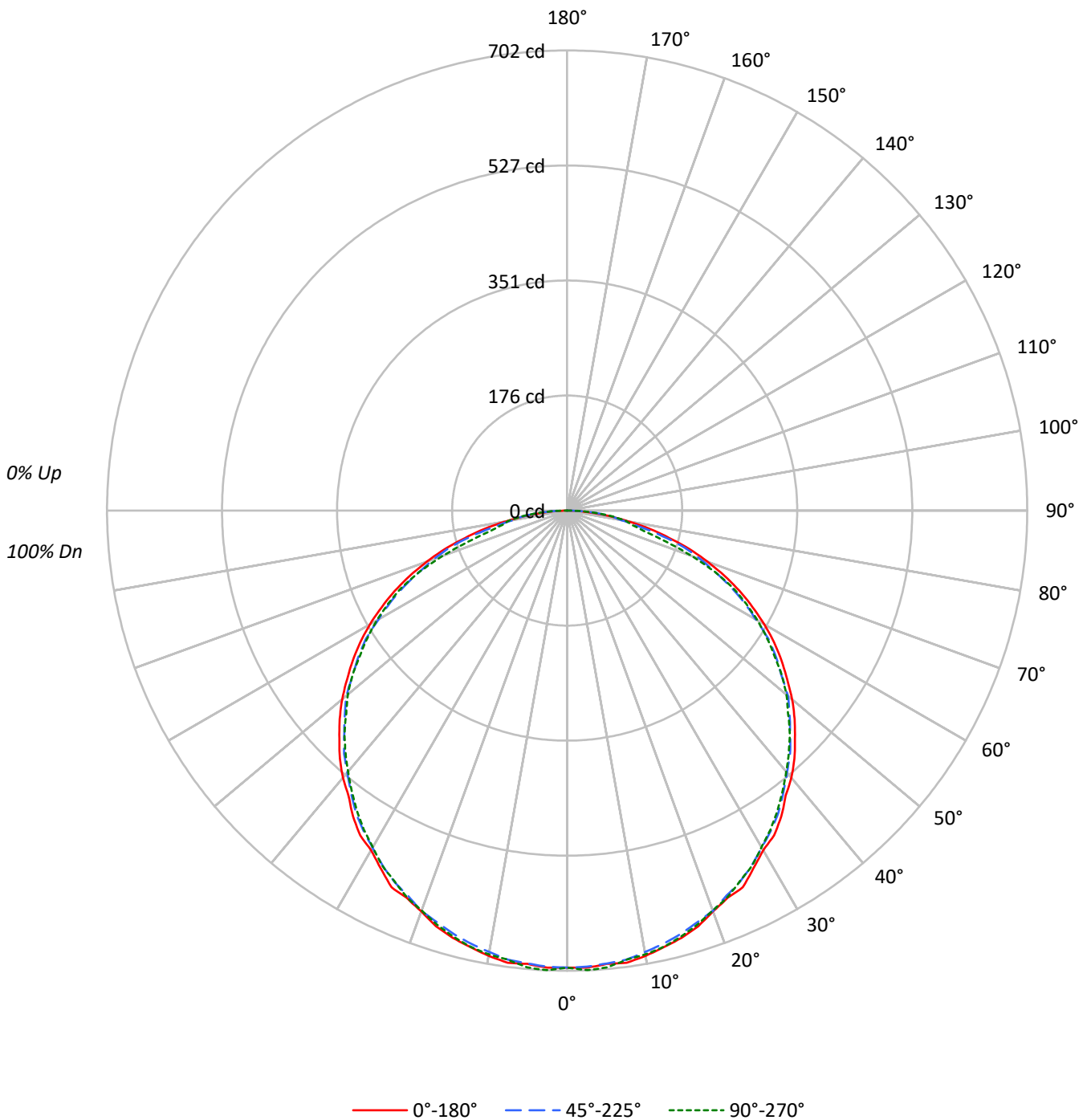
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1876	1876	1876
5°	1875	1873	1890
10°	1885	1868	1879
15°	1880	1863	1874
20°	1863	1861	1859
25°	1883	1854	1852
30°	1859	1845	1842
35°	1871	1847	1837
40°	1869	1832	1827
45°	1871	1831	1828
50°	1876	1841	1829
55°	1873	1824	1810
60°	1870	1790	1806
65°	1849	1754	1778
70°	1789	1700	1589
75°	1678	1569	1264
80°	1466	1291	1407
85°	1112	1414	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.2
10°-20°	189.5	9.0
20°-30°	288.5	13.7
30°-40°	351.8	16.8
40°-50°	373.3	17.8
50°-60°	349.5	16.6
60°-70°	276.1	13.2
70°-80°	156.3	7.4
80°-90°	47.9	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°	544.1	25.9
0°-40°	896.0	42.7
0°-60°	1618.7	77.1
0°-90°	2099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	694	695	694	698	700	66
15°	675	670	669	672	672	190
25°	634	627	624	623	624	290
35°	570	569	562	556	559	356
45°	492	489	481	479	480	380
55°	399	397	389	389	386	357
65°	290	287	275	279	279	286
75°	161	157	151	131	122	171
85°	36	39	46	46	46	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.2	697.2	697.2	697.2	697.2
2.5°	698.0	698.7	696.5	697.2	701.7
5°	694.2	695.0	693.5	698.0	699.5
7.5°	695.7	692.0	691.2	692.7	691.2
10°	689.7	689.0	683.7	685.2	687.5
12.5°	682.2	680.7	677.0	680.7	681.5
15°	674.7	669.5	668.7	672.5	672.5
17.5°	664.9	664.9	658.9	658.9	661.9
20°	650.7	652.9	649.9	649.9	649.2
22.5°	639.4	637.9	635.7	641.7	638.7
25°	634.2	627.4	624.4	622.9	623.7
27.5°	615.4	616.9	610.2	607.2	610.9
30°	598.2	597.4	593.7	595.2	592.9
32.5°	587.6	580.9	578.6	577.1	577.1
35°	569.6	568.9	562.1	556.1	559.1
37.5°	547.9	547.9	541.9	540.4	539.6
40°	532.1	526.9	521.6	522.4	520.1
42.5°	513.3	509.6	503.6	497.6	500.6
45°	491.6	489.3	481.1	478.8	480.3
47.5°	470.6	465.3	460.1	460.1	457.1
50°	448.1	443.5	439.8	435.3	436.8
52.5°	423.3	422.5	412.0	409.8	412.8
55°	399.3	397.0	388.8	388.8	385.8
57.5°	374.5	370.7	364.0	361.7	361.0
60°	347.5	343.0	332.5	330.2	335.5
62.5°	319.0	314.5	304.7	305.5	307.7
65°	290.4	286.7	275.4	279.2	279.2
67.5°	259.7	253.7	243.9	245.4	243.2
70°	227.4	223.7	216.1	207.9	201.9
72.5°	195.9	191.4	187.6	168.1	158.4
75°	161.4	156.9	150.9	131.3	121.6
77.5°	129.8	126.1	112.6	99.1	101.3
80°	94.6	99.1	83.3	88.6	90.8
82.5°	64.5	65.3	68.3	72.0	70.5
85°	36.0	39.0	45.8	45.8	45.8
87.5°	13.5	19.5	20.3	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)