

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: P393047

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393047
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 (5000K)
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: 2357.5 lumens
Efficiency: N/A
Efficacy: 82.1 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

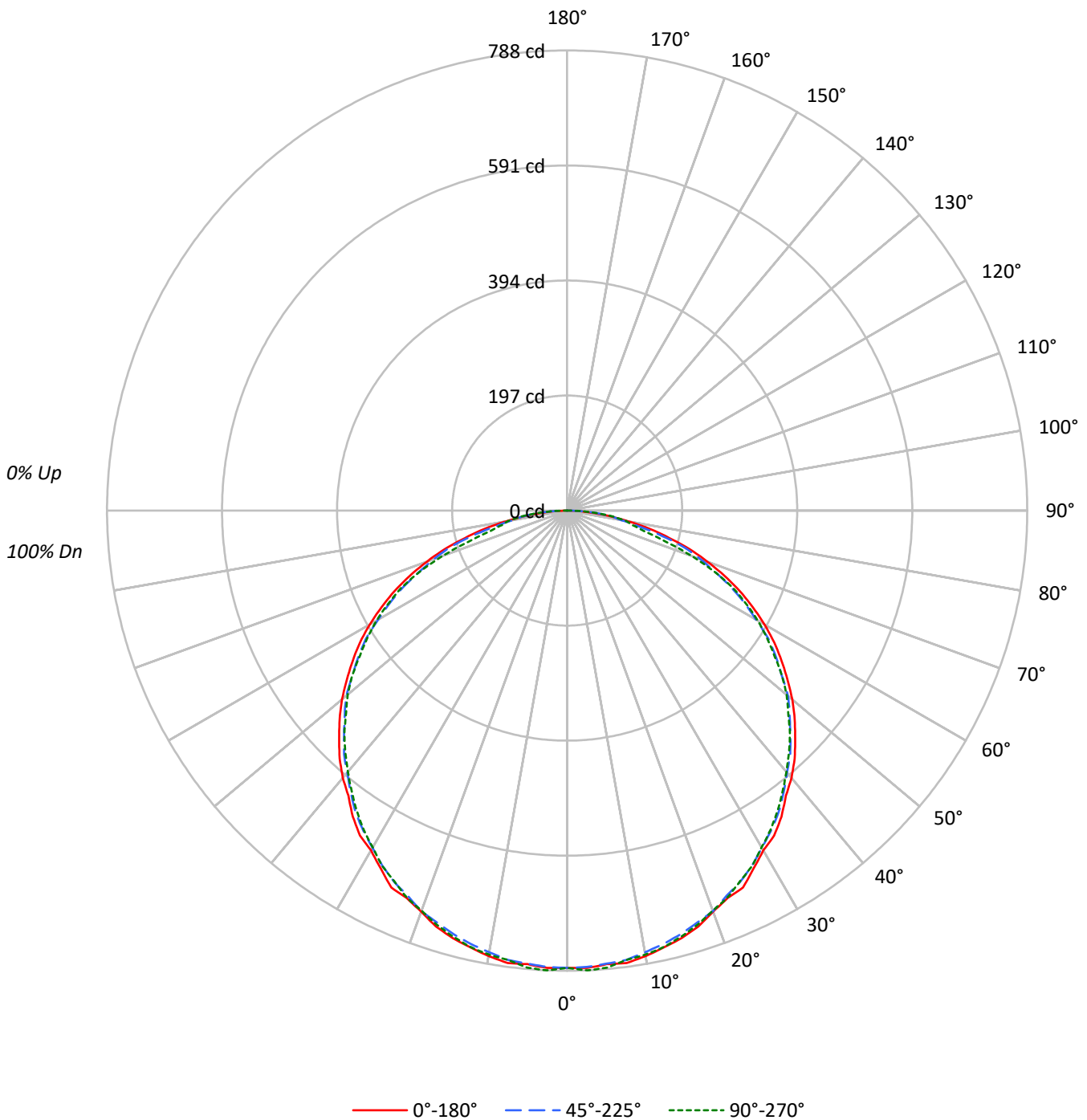
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2107	2107	2107
5°	2106	2104	2122
10°	2117	2098	2110
15°	2111	2092	2104
20°	2093	2090	2088
25°	2115	2082	2080
30°	2087	2072	2069
35°	2102	2074	2063
40°	2099	2058	2052
45°	2101	2056	2053
50°	2107	2068	2054
55°	2104	2048	2033
60°	2101	2010	2028
65°	2077	1969	1997
70°	2009	1910	1784
75°	1884	1761	1419
80°	1646	1450	1581
85°	1250	1587	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.2
10°-20°	212.8	9.0
20°-30°	324.0	13.7
30°-40°	395.2	16.8
40°-50°	419.3	17.8
50°-60°	392.5	16.6
60°-70°	310.1	13.2
70°-80°	175.5	7.4
80°-90°	53.8	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°	611.1	25.9
0°-40°	1006.3	42.7
0°-60°	1818.0	77.1
0°-90°	2357.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	780	780	779	784	786	74
15°	758	752	751	755	755	214
25°	712	705	701	700	700	326
35°	640	639	631	625	628	399
45°	552	550	540	538	540	426
55°	448	446	437	437	433	401
65°	326	322	309	314	314	321
75°	181	176	169	148	136	192
85°	40	44	51	51	51	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.1	783.1	783.1	783.1	783.1
2.5°	783.9	784.7	782.2	783.1	788.1
5°	779.7	780.5	778.8	783.9	785.6
7.5°	781.4	777.2	776.3	778.0	776.3
10°	774.6	773.8	767.9	769.6	772.1
12.5°	766.2	764.5	760.3	764.5	765.4
15°	757.8	751.9	751.0	755.2	755.2
17.5°	746.8	746.8	740.1	740.1	743.4
20°	730.8	733.3	730.0	730.0	729.1
22.5°	718.2	716.5	713.9	720.7	717.3
25°	712.3	704.7	701.3	699.6	700.5
27.5°	691.2	692.9	685.3	681.9	686.1
30°	671.8	670.9	666.7	668.4	665.9
32.5°	660.0	652.4	649.9	648.2	648.2
35°	639.8	638.9	631.3	624.6	628.0
37.5°	615.3	615.3	608.6	606.9	606.0
40°	597.6	591.7	585.8	586.7	584.1
42.5°	576.5	572.3	565.6	558.8	562.2
45°	552.1	549.6	540.3	537.8	539.5
47.5°	528.5	522.6	516.7	516.7	513.3
50°	503.2	498.2	493.9	488.9	490.6
52.5°	475.4	474.6	462.8	460.2	463.6
55°	448.4	445.9	436.6	436.6	433.3
57.5°	420.6	416.4	408.8	406.3	405.4
60°	390.3	385.2	373.4	370.9	376.8
62.5°	358.2	353.2	342.2	343.1	345.6
65°	326.2	322.0	309.3	313.6	313.6
67.5°	291.6	284.9	273.9	275.6	273.1
70°	255.4	251.2	242.8	233.5	226.7
72.5°	220.0	214.9	210.7	188.8	177.9
75°	181.2	176.2	169.4	147.5	136.5
77.5°	145.8	141.6	126.4	111.3	113.8
80°	106.2	111.3	93.6	99.5	102.0
82.5°	72.5	73.3	76.7	80.9	79.2
85°	40.5	43.8	51.4	51.4	51.4
87.5°	15.2	21.9	22.8	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)