

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: P392997

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L82765-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2389.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

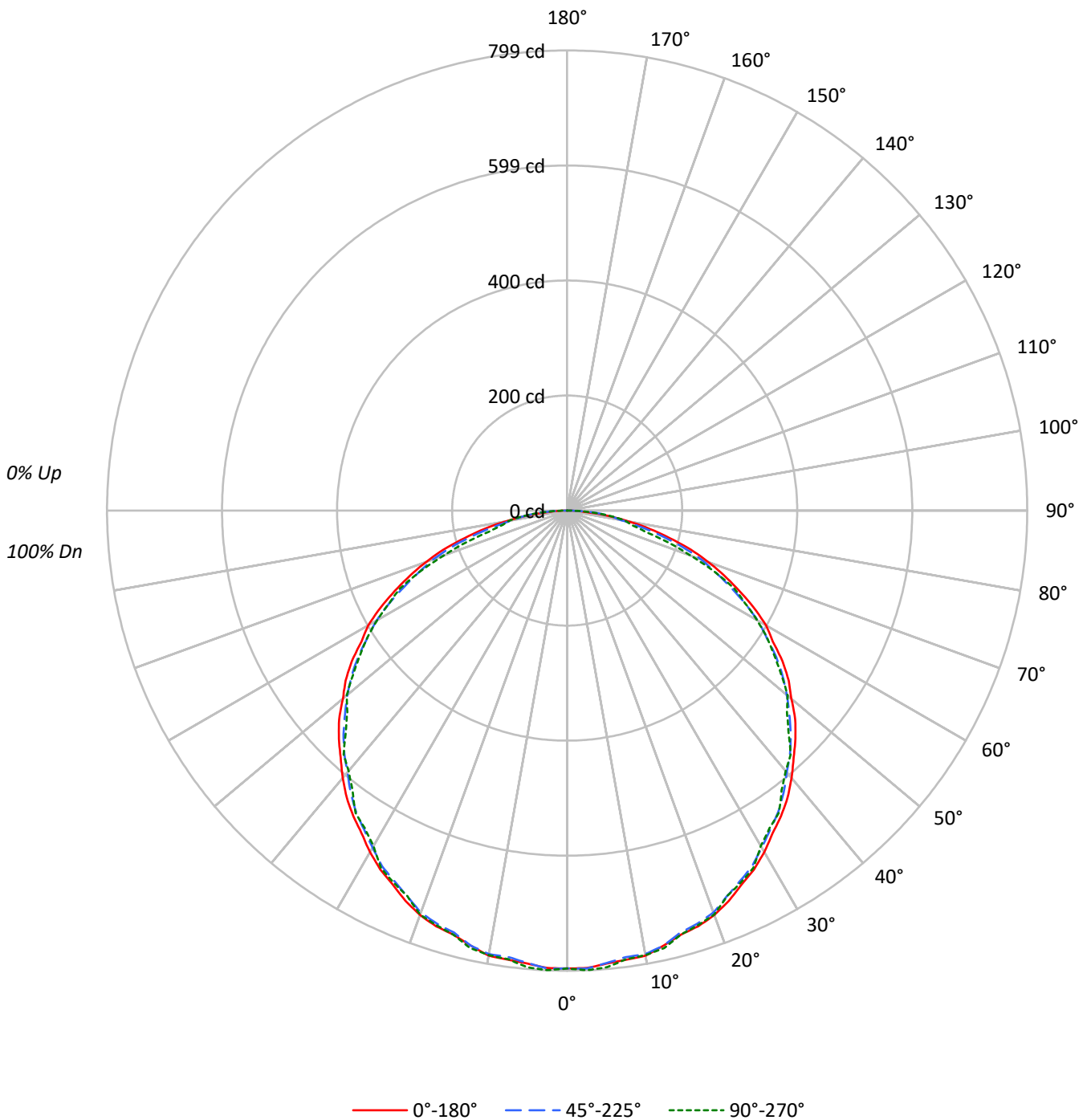
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	40	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°	2139	2139	2139
5°	2132	2130	2150
10°	2144	2137	2141
15°	2124	2113	2124
20°	2140	2127	2137
25°	2127	2108	2116
30°	2128	2099	2090
35°	2127	2099	2105
40°	2130	2084	2074
45°	2133	2090	2069
50°	2128	2084	2092
55°	2143	2077	2060
60°	2147	2056	2051
65°	2100	1981	2040
70°	2050	1947	1793
75°	1913	1758	1447
80°	1694	1461	1593
85°	1210	1643	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.1
10°-20°	216.0	9.0
20°-30°	328.9	13.8
30°-40°	400.3	16.8
40°-50°	425.0	17.8
50°-60°	397.7	16.6
60°-70°	314.5	13.2
70°-80°	177.6	7.4
80°-90°	54.3	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°	620.0	25.9
0°-40°	1020.3	42.7
0°-60°	1843.1	77.1
0°-90°	2389.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2389.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	789	789	788	792	796	75
15°	762	765	758	766	762	216
25°	716	717	710	711	713	331
35°	647	646	639	634	641	405
45°	560	556	549	547	544	432
55°	457	450	443	439	439	407
65°	330	323	311	315	320	327
75°	184	179	169	150	139	196
85°	39	44	53	53	51	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.0	795.0	795.0	795.0	795.0
2.5°	795.0	796.8	795.9	793.1	798.7
5°	789.4	789.4	788.4	792.2	795.9
7.5°	786.6	787.5	781.9	789.4	785.6
10°	784.7	786.6	781.9	780.9	783.7
12.5°	773.5	772.5	773.5	773.5	778.1
15°	762.3	765.1	758.5	766.0	762.3
17.5°	756.7	760.4	752.0	752.9	754.8
20°	747.3	743.6	742.6	739.8	746.4
22.5°	733.3	727.7	724.9	728.6	724.9
25°	716.5	717.4	710.0	710.9	712.8
27.5°	702.5	701.5	695.9	694.1	699.7
30°	684.7	679.1	675.4	676.3	672.6
32.5°	664.2	663.2	656.7	655.8	653.9
35°	647.4	646.4	639.0	634.3	640.8
37.5°	628.7	622.1	617.5	614.7	611.9
40°	606.3	602.5	593.2	591.3	590.4
42.5°	582.0	582.0	572.6	567.0	574.5
45°	560.5	555.8	549.3	547.4	543.7
47.5°	537.1	532.5	523.1	520.3	517.5
50°	508.2	508.2	497.9	494.2	499.8
52.5°	484.8	480.2	471.7	469.9	468.9
55°	456.8	450.3	442.8	439.0	439.0
57.5°	423.2	421.3	411.0	408.2	412.0
60°	398.9	391.4	382.1	379.3	381.1
62.5°	365.3	358.7	348.4	346.6	348.4
65°	329.8	323.2	311.1	314.8	320.4
67.5°	295.2	289.6	278.4	281.2	276.5
70°	260.6	255.0	247.5	237.3	227.9
72.5°	225.1	214.9	210.2	190.6	184.0
75°	184.0	179.4	169.1	149.5	139.2
77.5°	147.6	142.9	129.8	113.0	114.0
80°	109.3	113.0	94.3	100.0	102.8
82.5°	72.9	72.9	77.5	81.3	81.3
85°	39.2	43.9	53.2	53.2	51.4
87.5°	14.9	21.5	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)