

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: P393035

Luminaire Tested: **14EN-LD2-28-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393035
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-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

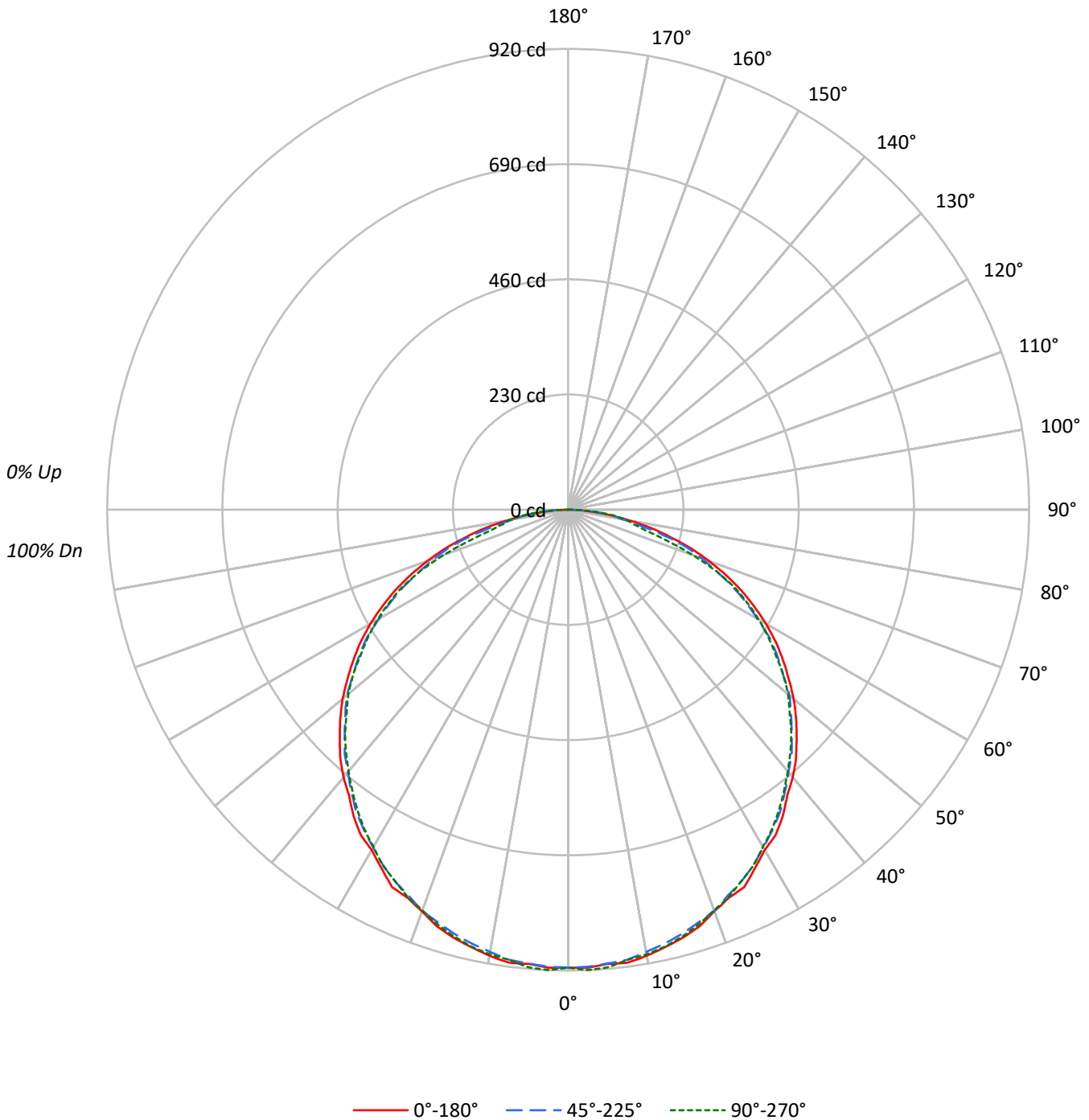
Input Watts (W): 29.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2460	2460	2460
5°	2459	2456	2477
10°	2471	2449	2463
15°	2464	2442	2456
20°	2443	2440	2437
25°	2469	2431	2428
30°	2437	2418	2415
35°	2453	2421	2408
40°	2451	2402	2395
45°	2453	2400	2396
50°	2459	2414	2398
55°	2456	2391	2373
60°	2452	2346	2367
65°	2425	2299	2330
70°	2345	2230	2083
75°	2199	2057	1657
80°	1922	1692	1846
85°	1457	1853	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.2
10°-20°	248.4	9.0
20°-30°	378.2	13.7
30°-40°	461.3	16.8
40°-50°	489.4	17.8
50°-60°	458.2	16.6
60°-70°	362.0	13.2
70°-80°	204.9	7.4
80°-90°	62.8	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°	713.4	25.9
0°-40°	1174.6	42.7
0°-60°	2122.2	77.1
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	910	911	909	915	917	87
15°	885	878	877	882	882	249
25°	831	823	819	817	818	380
35°	747	746	737	729	733	466
45°	644	642	631	628	630	498
55°	524	520	510	510	506	468
65°	381	376	361	366	366	375
75°	212	206	198	172	159	224
85°	47	51	60	60	60	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	915.1	916.1	913.1	914.1	920.0
5°	910.2	911.1	909.2	915.1	917.0
7.5°	912.1	907.2	906.2	908.2	906.2
10°	904.2	903.3	896.4	898.3	901.3
12.5°	894.4	892.4	887.5	892.4	893.4
15°	884.6	877.7	876.7	881.6	881.6
17.5°	871.8	871.8	863.9	863.9	867.8
20°	853.1	856.0	852.1	852.1	851.1
22.5°	838.3	836.4	833.4	841.3	837.3
25°	831.4	822.6	818.6	816.7	817.7
27.5°	806.8	808.8	800.0	796.0	800.9
30°	784.2	783.2	778.3	780.3	777.3
32.5°	770.4	761.6	758.6	756.7	756.7
35°	746.8	745.8	737.0	729.1	733.0
37.5°	718.3	718.3	710.4	708.4	707.5
40°	697.6	690.7	683.8	684.8	681.9
42.5°	673.0	668.1	660.2	652.4	656.3
45°	644.5	641.5	630.7	627.8	629.7
47.5°	616.9	610.0	603.2	603.2	599.2
50°	587.4	581.5	576.6	570.7	572.7
52.5°	554.9	554.0	540.2	537.2	541.2
55°	523.5	520.5	509.7	509.7	505.7
57.5°	491.0	486.1	477.2	474.3	473.3
60°	455.6	449.7	435.9	432.9	439.8
62.5°	418.2	412.3	399.5	400.5	403.4
65°	380.8	375.9	361.1	366.0	366.0
67.5°	340.4	332.6	319.8	321.8	318.8
70°	298.1	293.2	283.4	272.6	264.7
72.5°	256.8	250.9	246.0	220.4	207.6
75°	211.5	205.6	197.8	172.2	159.4
77.5°	170.2	165.3	147.6	129.9	132.8
80°	124.0	129.9	109.2	116.1	119.1
82.5°	84.6	85.6	89.5	94.5	92.5
85°	47.2	51.2	60.0	60.0	60.0
87.5°	17.7	25.6	26.6	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)