

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: P393107

Luminaire Tested: **14EN-LD2-38-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L92765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

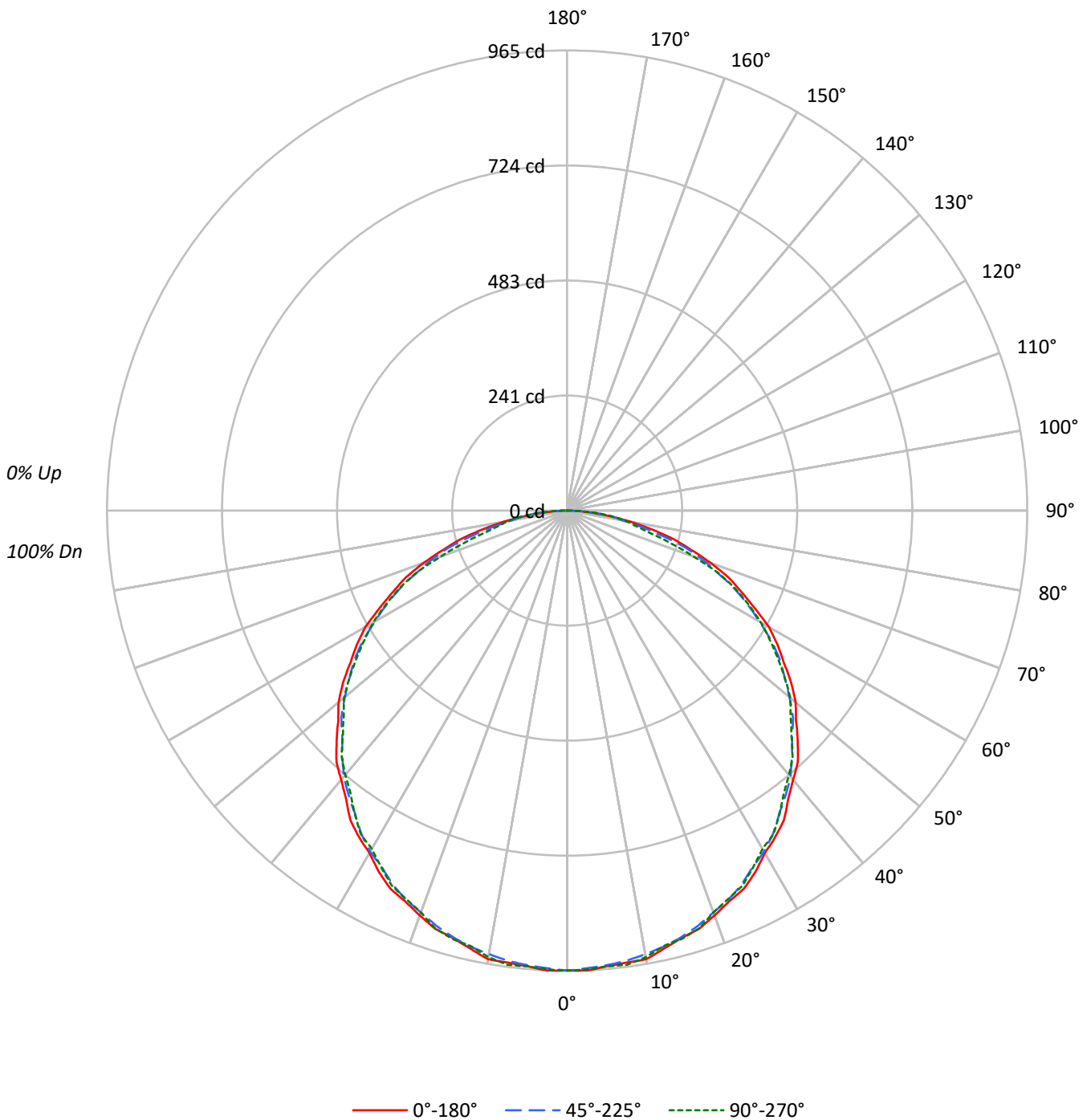
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48					48			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42					42			
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2596	2596	2596
5°	2591	2585	2591
10°	2610	2581	2598
15°	2584	2579	2590
20°	2587	2567	2567
25°	2600	2570	2579
30°	2576	2567	2545
35°	2604	2548	2551
40°	2589	2559	2543
45°	2602	2539	2531
50°	2619	2547	2557
55°	2601	2553	2528
60°	2629	2504	2525
65°	2564	2465	2485
70°	2510	2388	2223
75°	2390	2173	1843
80°	2087	1799	1956
85°	1528	1936	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.1
10°-20°	262.0	9.0
20°-30°	399.7	13.7
30°-40°	488.2	16.7
40°-50°	519.2	17.8
50°-60°	487.5	16.7
60°-70°	386.6	13.2
70°-80°	220.3	7.5
80°-90°	66.3	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°	753.0	25.8
0°-40°	1241.2	42.5
0°-60°	2247.9	77.0
0°-90°	2921.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	959	965	957	960	959	91
15°	927	929	926	927	930	263
25°	876	867	866	866	869	402
35°	793	783	776	776	776	493
45°	684	680	667	668	665	528
55°	554	551	544	539	539	498
65°	403	400	387	389	390	400
75°	230	221	209	187	177	240
85°	50	55	63	63	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.6	964.6	964.6	964.6	964.6
2.5°	965.4	964.6	960.7	965.4	963.0
5°	959.2	964.6	956.9	960.0	959.2
7.5°	956.1	954.5	952.2	957.6	960.7
10°	955.3	947.6	944.5	949.9	950.7
12.5°	940.6	942.9	936.7	938.3	935.2
15°	927.4	929.0	925.9	927.4	929.8
17.5°	919.7	915.0	912.7	915.8	918.9
20°	903.4	904.2	896.5	900.3	896.5
22.5°	887.2	888.0	883.3	883.3	881.8
25°	875.6	867.1	865.5	866.3	868.6
27.5°	854.7	851.6	842.3	845.4	843.8
30°	829.1	832.2	826.0	819.8	819.1
32.5°	812.1	806.7	803.6	801.2	805.1
35°	792.7	783.4	775.7	776.5	776.5
37.5°	761.8	761.0	752.5	748.6	746.3
40°	737.0	733.9	728.5	723.1	723.8
42.5°	716.1	706.0	697.5	696.0	699.8
45°	683.6	679.7	667.3	668.1	665.0
47.5°	651.1	650.3	642.5	636.4	635.6
50°	625.5	617.8	608.5	606.9	610.8
52.5°	592.2	588.4	575.2	575.2	575.2
55°	554.3	551.2	544.2	538.8	538.8
57.5°	522.6	516.4	507.8	504.0	504.0
60°	488.5	479.2	465.3	466.8	469.1
62.5°	443.6	438.9	426.6	425.0	429.7
65°	402.6	400.2	387.1	388.6	390.2
67.5°	366.2	356.1	341.4	346.8	343.7
70°	319.0	313.5	303.5	292.6	282.6
72.5°	271.7	268.6	263.2	236.9	227.6
75°	229.9	221.4	209.0	187.3	177.3
77.5°	180.4	178.1	160.2	143.2	144.8
80°	134.7	136.3	116.1	123.1	126.2
82.5°	88.3	91.4	95.2	99.9	97.5
85°	49.5	55.0	62.7	62.7	63.5
87.5°	17.8	26.3	27.9	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)