

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: P392855

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-27-UNV-L92765-W2A-1-U (5000K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2316.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

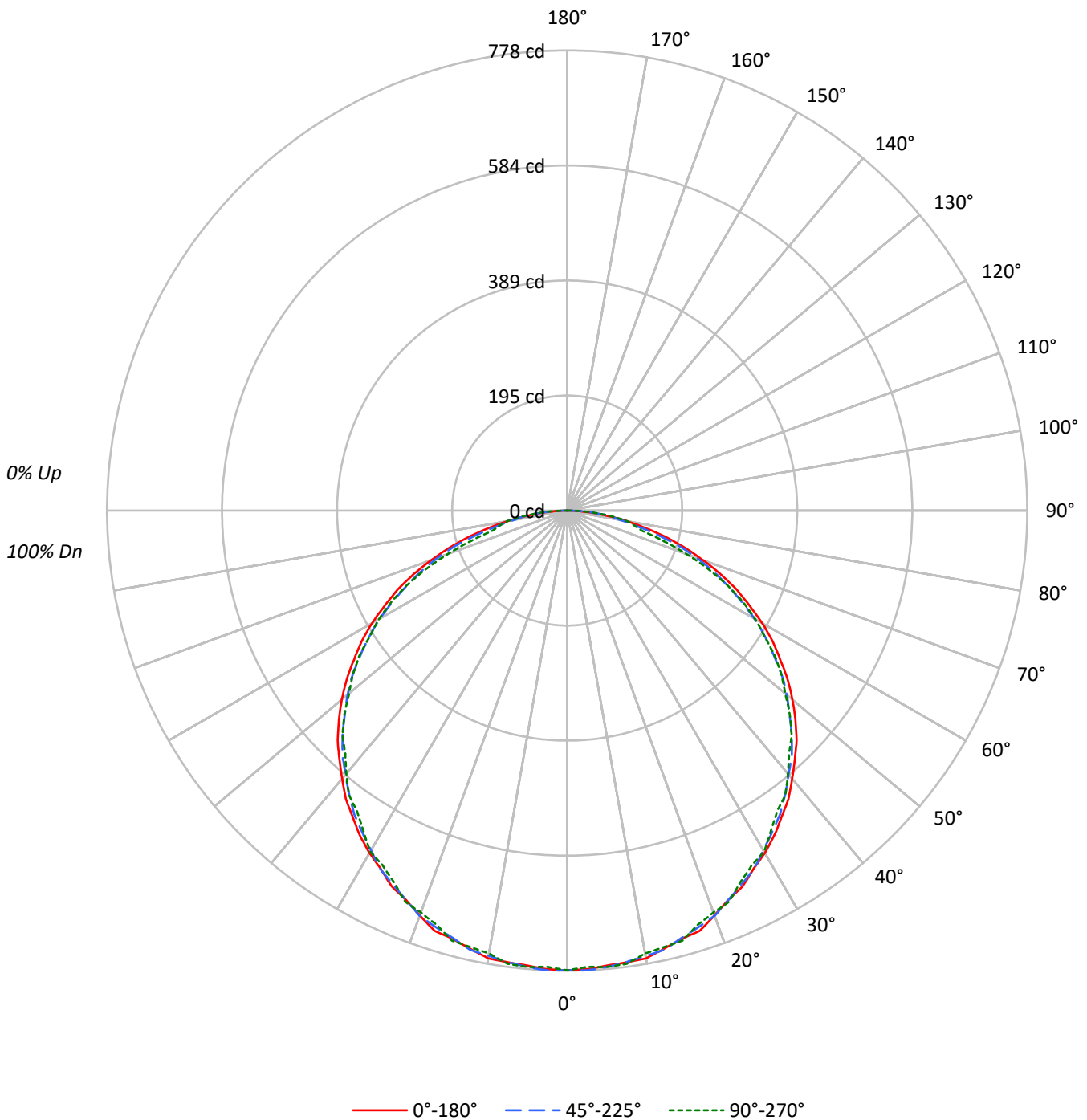
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4183	4183	4183
5°	4171	4185	4185
10°	4201	4178	4155
15°	4175	4166	4194
20°	4171	4176	4142
25°	4165	4140	4115
30°	4154	4123	4138
35°	4154	4120	4070
40°	4157	4092	4080
45°	4176	4086	4086
50°	4164	4058	4030
55°	4129	4002	4025
60°	4101	3937	3956
65°	4025	3800	3810
70°	3833	3660	3382
75°	3577	3261	2699
80°	3161	2796	3186
85°	2501	2964	3069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.2
10°-20°	211.5	9.1
20°-30°	321.7	13.9
30°-40°	392.1	16.9
40°-50°	415.5	17.9
50°-60°	384.8	16.6
60°-70°	299.0	12.9
70°-80°	166.9	7.2
80°-90°	51.5	2.2
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°	606.8	26.2
0°-40°	998.9	43.1
0°-60°	1799.2	77.7
0°-90°	2316.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	772	775	775	775	775	74
15°	749	748	748	747	753	212
25°	701	700	697	696	693	323
35°	632	630	627	624	620	396
45°	549	544	537	532	537	422
55°	440	438	426	424	429	394
65°	316	309	298	299	299	311
75°	172	168	157	141	130	182
85°	40	41	48	50	50	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.2	777.2	777.2	777.2	777.2
2.5°	776.3	775.5	778.0	776.3	772.1
5°	772.1	774.6	774.6	774.6	774.6
7.5°	770.4	768.7	769.6	770.4	772.9
10°	768.7	763.7	764.5	763.7	760.3
12.5°	758.6	758.6	760.3	758.6	756.1
15°	749.3	748.5	747.7	746.8	752.7
17.5°	745.1	738.4	738.4	739.2	734.2
20°	728.3	728.3	729.1	726.6	723.2
22.5°	712.2	714.8	712.2	708.9	715.6
25°	701.3	699.6	697.1	696.2	692.9
27.5°	682.7	684.4	683.6	680.2	676.0
30°	668.4	666.7	663.4	659.1	665.9
32.5°	651.6	649.0	644.8	642.3	641.4
35°	632.2	629.6	627.1	623.7	619.5
37.5°	614.5	610.3	605.2	600.1	606.0
40°	591.7	590.0	582.4	579.1	580.8
42.5°	569.8	568.1	562.2	558.0	555.5
45°	548.7	543.7	536.9	531.9	536.9
47.5°	523.4	520.1	510.0	508.3	510.8
50°	497.3	493.1	484.7	482.1	481.3
52.5°	470.3	467.0	457.7	452.6	456.9
55°	440.0	438.3	426.5	424.0	429.0
57.5°	412.2	407.1	397.0	394.5	395.3
60°	381.0	376.8	365.8	362.4	367.5
62.5°	347.3	343.1	331.3	330.4	335.5
65°	316.1	309.3	298.4	299.2	299.2
67.5°	280.7	275.6	266.4	262.1	257.9
70°	243.6	240.2	232.6	219.2	214.9
72.5°	208.2	204.0	197.2	174.5	170.3
75°	172.0	167.7	156.8	140.8	129.8
77.5°	135.7	134.9	119.7	113.8	116.3
80°	102.0	101.1	90.2	99.5	102.8
82.5°	69.1	67.4	73.3	78.4	77.5
85°	40.5	41.3	48.0	49.7	49.7
87.5°	16.0	18.5	21.9	24.4	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)