

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: P393302

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L92765-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

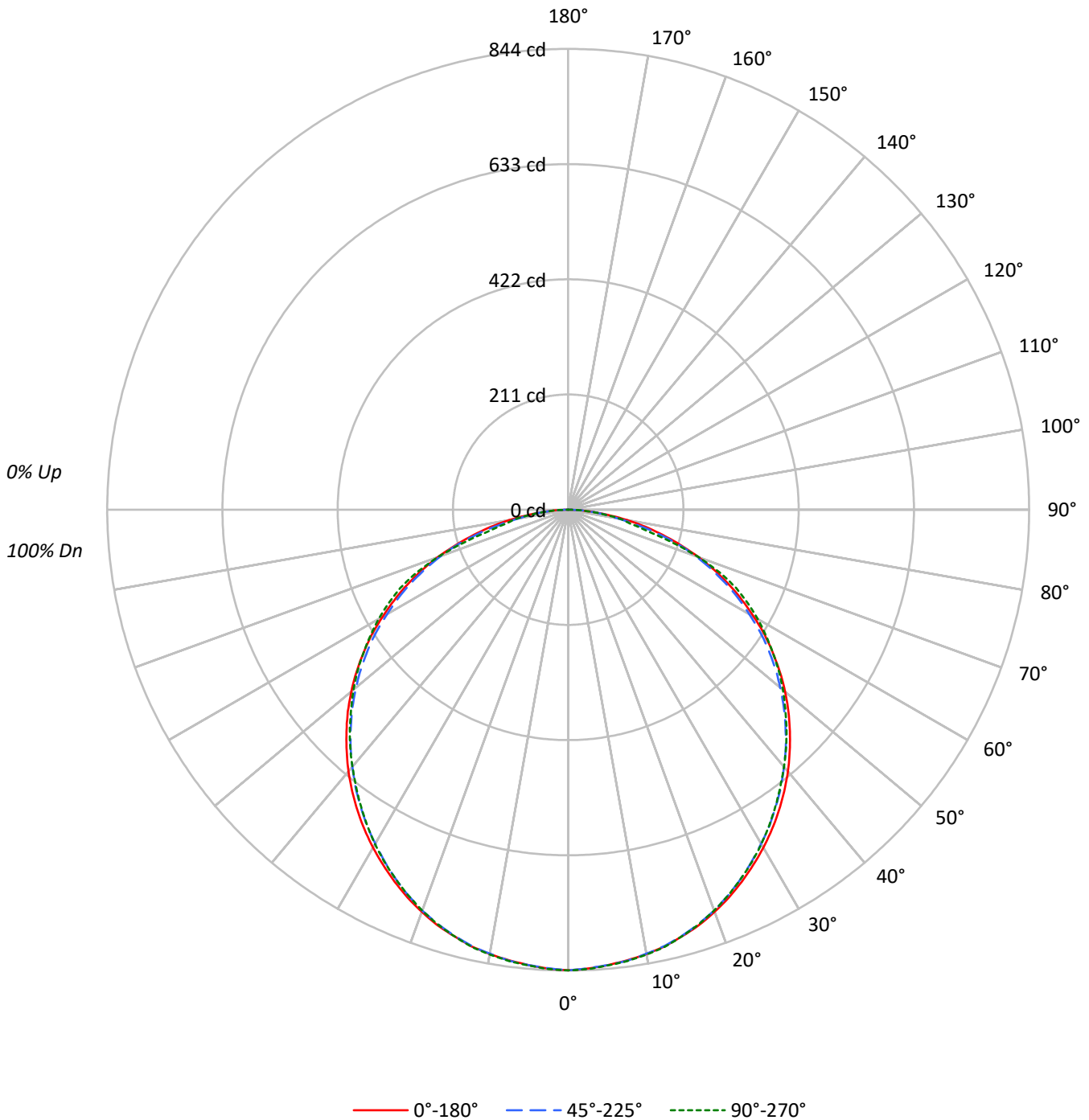
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	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	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2270	2270	2270
5°	2261	2261	2263
10°	2258	2256	2260
15°	2252	2250	2252
20°	2244	2237	2237
25°	2232	2217	2217
30°	2221	2195	2198
35°	2210	2178	2175
40°	2199	2159	2159
45°	2185	2141	2151
50°	2170	2122	2149
55°	2147	2100	2147
60°	2113	2060	2158
65°	2071	2019	2160
70°	1997	1952	1997
75°	1862	1777	1538
80°	1694	1438	1516
85°	1244	1269	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.2
10°-20°	228.5	9.3
20°-30°	345.5	14.0
30°-40°	417.4	16.9
40°-50°	438.1	17.8
50°-60°	405.6	16.5
60°-70°	320.8	13.0
70°-80°	179.9	7.3
80°-90°	48.3	2.0
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°	653.8	26.5
0°-40°	1071.2	43.5
0°-60°	1915.0	77.7
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	837	845	837	838	838	80
15°	808	817	808	807	808	228
25°	752	758	747	744	747	347
35°	673	678	663	660	662	421
45°	574	578	563	560	565	443
55°	458	458	448	452	458	409
65°	325	325	317	328	339	321
75°	179	180	171	154	148	190
85°	40	40	41	40	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.7	843.7	843.7	843.7	843.7
2.5°	841.2	848.6	840.4	841.2	842.0
5°	837.1	845.3	837.1	837.9	837.9
7.5°	832.2	840.4	833.0	832.2	833.8
10°	826.4	834.6	825.6	826.4	827.2
12.5°	819.0	826.4	818.2	818.2	819.8
15°	808.3	816.6	807.5	806.7	808.3
17.5°	797.7	804.2	795.2	794.4	796.0
20°	783.7	791.1	781.2	779.6	781.2
22.5°	768.9	775.5	764.8	763.2	764.8
25°	751.7	758.2	746.7	744.3	746.7
27.5°	733.6	739.3	727.0	724.6	727.8
30°	714.7	720.4	706.5	704.0	707.3
32.5°	694.2	699.1	685.9	681.8	685.1
35°	672.8	677.7	662.9	659.7	662.1
37.5°	649.8	654.7	639.9	636.7	638.3
40°	626.0	630.1	614.5	611.2	614.5
42.5°	600.5	604.6	589.8	587.4	590.7
45°	574.2	577.5	562.7	560.3	565.2
47.5°	547.1	550.4	535.6	534.8	538.9
50°	518.4	520.8	506.9	507.7	513.4
52.5°	488.8	489.6	478.1	480.6	486.3
55°	457.6	458.4	447.7	451.8	457.6
57.5°	426.4	427.2	416.5	421.4	429.6
60°	392.7	393.5	382.8	391.9	400.9
62.5°	359.0	359.8	350.8	360.6	370.5
65°	325.3	325.3	317.1	327.8	339.3
67.5°	290.0	290.0	282.6	293.3	299.8
70°	253.8	254.7	248.1	250.6	253.8
72.5°	216.1	217.7	211.9	202.9	200.4
75°	179.1	179.9	170.9	154.4	147.9
77.5°	144.6	142.9	129.8	115.0	115.0
80°	109.3	107.6	92.8	95.3	97.8
82.5°	73.1	73.1	68.2	67.4	67.4
85°	40.3	40.3	41.1	40.3	39.4
87.5°	17.3	17.3	18.1	18.1	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)