

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: P393074

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-33-UNV-L92765-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2480.4 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

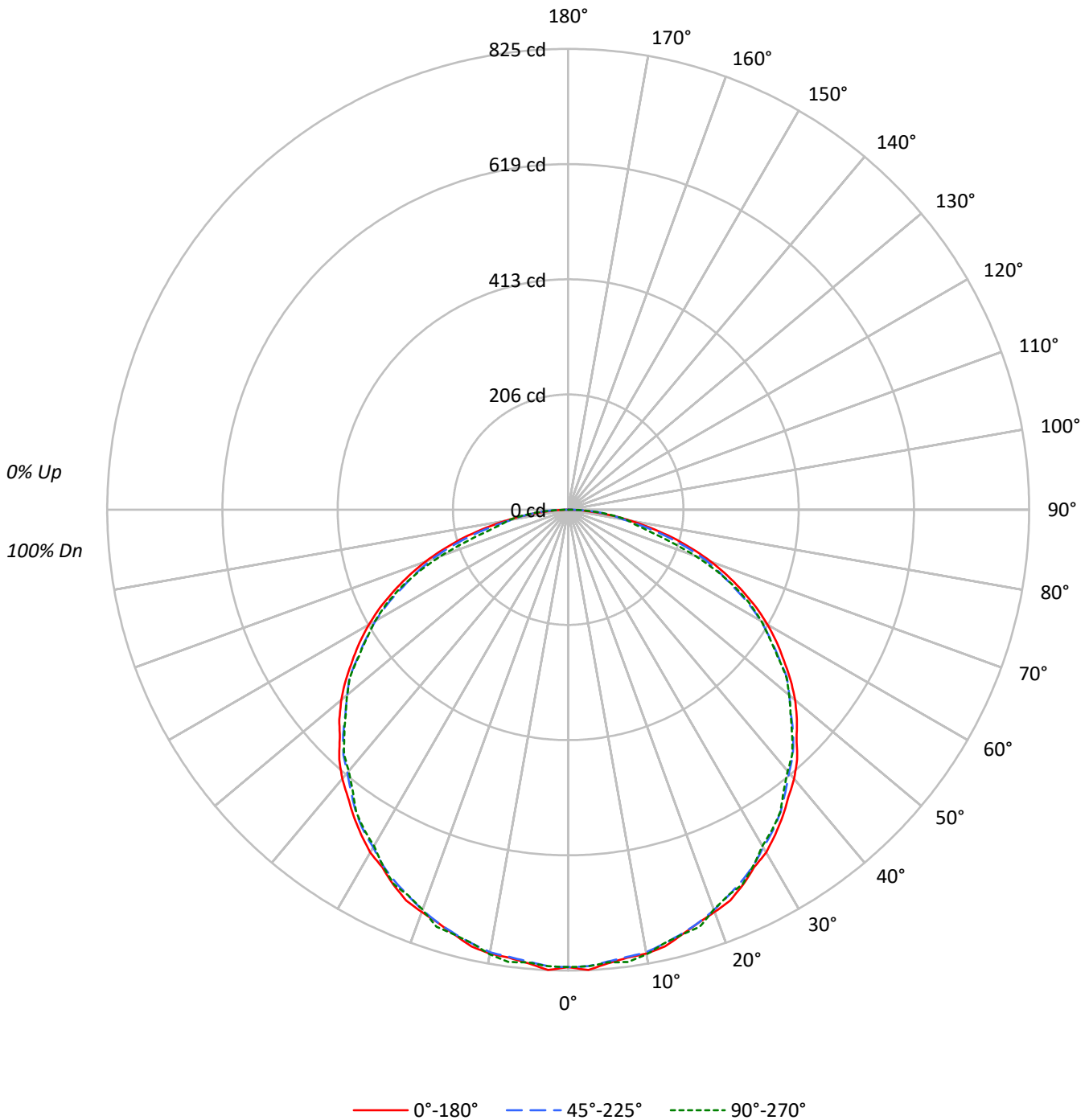
Input Watts (W): 30.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	2203	2203	2203
5°	2202	2193	2197
10°	2205	2198	2209
15°	2193	2189	2193
20°	2194	2184	2182
25°	2199	2179	2195
30°	2202	2169	2160
35°	2199	2174	2172
40°	2209	2159	2146
45°	2199	2168	2156
50°	2218	2161	2161
55°	2211	2155	2145
60°	2217	2145	2149
65°	2188	2074	2108
70°	2138	2049	1913
75°	2006	1865	1561
80°	1756	1559	1663
85°	1297	1667	1667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	3.1
10°-20°	222.5	9.0
20°-30°	339.3	13.7
30°-40°	414.3	16.7
40°-50°	440.8	17.8
50°-60°	413.9	16.7
60°-70°	328.8	13.3
70°-80°	186.9	7.5
80°-90°	56.4	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°	639.2	25.8
0°-40°	1053.5	42.5
0°-60°	1908.2	76.9
0°-90°	2480.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	815	815	812	817	814	78
15°	787	790	786	789	787	223
25°	741	739	734	735	739	341
35°	670	666	662	659	661	419
45°	578	577	570	568	567	448
55°	471	468	459	459	457	422
65°	344	338	326	331	331	340
75°	193	188	179	158	150	203
85°	42	46	54	52	54	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	818.8	818.8	818.8	818.8	818.8
2.5°	824.8	818.8	818.1	818.8	818.1
5°	815.0	815.0	812.0	816.6	813.5
7.5°	809.0	812.0	807.5	812.0	816.6
10°	806.8	806.0	804.5	803.8	808.3
12.5°	800.8	797.0	795.5	797.8	794.8
15°	787.3	790.3	785.8	788.8	787.3
17.5°	775.3	779.0	775.3	776.8	782.8
20°	766.3	767.0	762.5	763.3	761.8
22.5°	757.3	751.3	748.3	749.0	747.5
25°	740.7	739.2	734.0	734.7	739.2
27.5°	721.2	722.7	718.2	717.5	718.2
30°	708.5	704.7	698.0	698.7	695.0
32.5°	689.7	685.2	681.5	677.7	679.2
35°	669.5	665.7	661.9	658.9	661.2
37.5°	647.7	645.4	637.9	637.2	633.4
40°	628.9	622.2	614.7	612.4	610.9
42.5°	606.4	602.7	595.2	591.4	593.7
45°	577.9	577.1	569.6	568.1	566.6
47.5°	555.4	550.1	540.4	541.1	539.6
50°	529.9	525.4	516.3	513.3	516.3
52.5°	502.1	499.8	493.1	490.1	492.3
55°	471.3	468.3	459.3	458.6	457.1
57.5°	442.8	438.3	428.5	425.5	427.0
60°	412.0	407.5	398.5	394.0	399.3
62.5°	379.8	373.8	364.0	364.7	367.7
65°	343.7	338.5	325.7	331.0	331.0
67.5°	308.5	303.2	292.7	292.7	288.2
70°	271.7	264.9	260.4	249.9	243.2
72.5°	232.7	225.9	220.6	202.6	192.9
75°	192.9	187.6	179.4	157.6	150.1
77.5°	151.6	150.1	137.3	120.8	123.1
80°	113.3	115.6	100.6	106.6	107.3
82.5°	77.3	77.3	79.6	84.1	84.1
85°	42.0	45.8	54.0	52.5	54.0
87.5°	15.8	22.5	24.8	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)