

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: P393031

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393031  
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-L82765-W2A-1-U (5000K)  
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2685.8 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

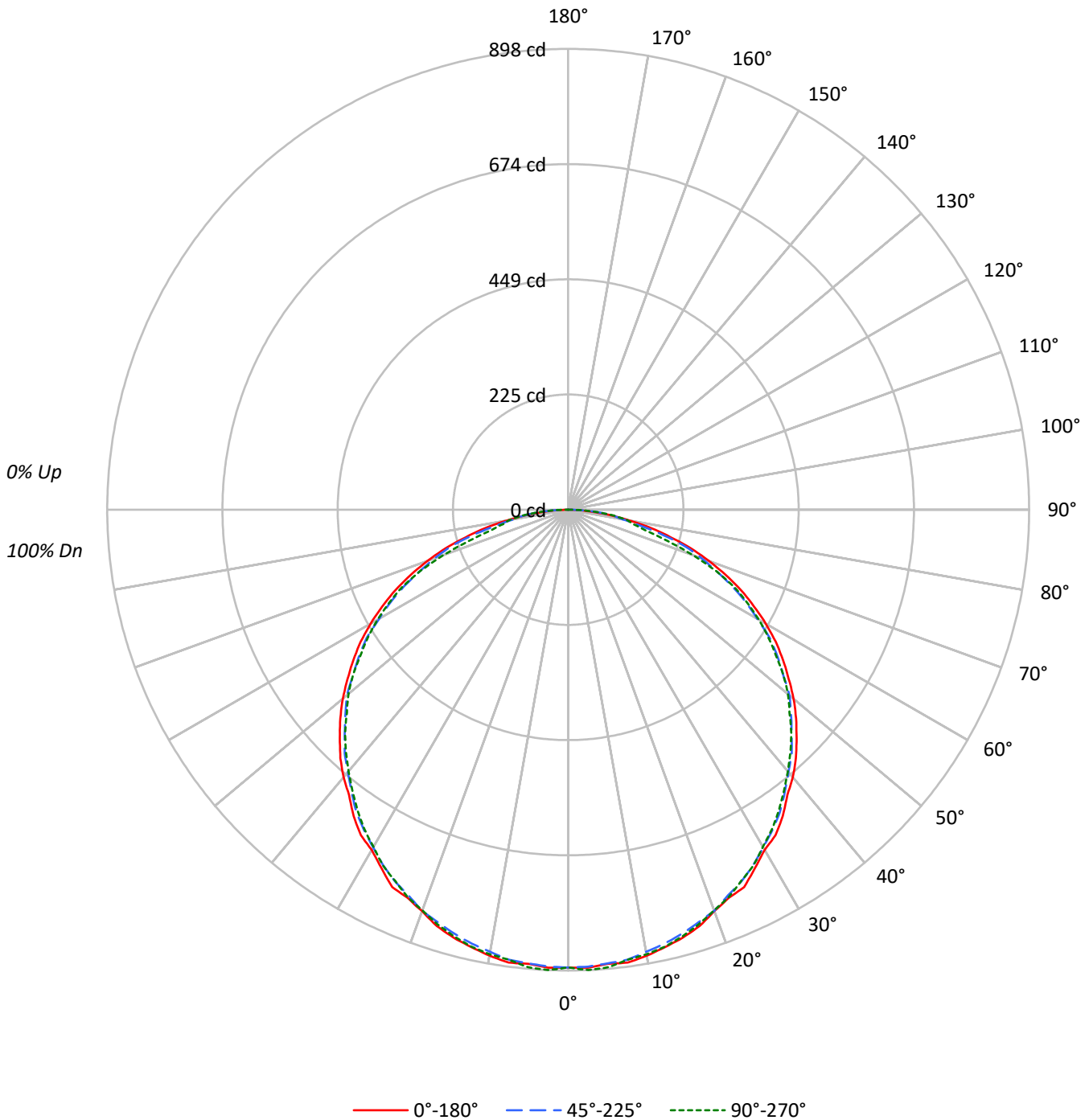
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2401	2401	2401
5°	2400	2397	2418
10°	2411	2390	2403
15°	2405	2384	2397
20°	2384	2381	2379
25°	2409	2372	2369
30°	2378	2360	2357
35°	2394	2363	2350
40°	2392	2344	2338
45°	2394	2342	2339
50°	2400	2356	2340
55°	2397	2334	2316
60°	2393	2289	2310
65°	2366	2244	2274
70°	2290	2176	2032
75°	2147	2007	1618
80°	1875	1652	1801
85°	1423	1809	1809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.2
10°-20°	242.5	9.0
20°-30°	369.1	13.7
30°-40°	450.2	16.8
40°-50°	477.7	17.8
50°-60°	447.1	16.6
60°-70°	353.3	13.2
70°-80°	200.0	7.4
80°-90°	61.3	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°	696.2	25.9
0°-40°	1146.4	42.7
0°-60°	2071.2	77.1
0°-90°	2685.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	888	889	887	893	895	85
15°	863	857	856	860	860	243
25°	811	803	799	797	798	371
35°	729	728	719	712	715	455
45°	629	626	616	613	615	486
55°	511	508	497	497	494	457
65°	372	367	352	357	357	366
75°	206	201	193	168	156	219
85°	46	50	59	59	59	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	892.1	892.1	892.1	892.1	892.1
2.5°	893.1	894.0	891.1	892.1	897.9
5°	888.3	889.2	887.3	893.1	895.0
7.5°	890.2	885.4	884.4	886.3	884.4
10°	882.5	881.5	874.8	876.7	879.6
12.5°	872.9	871.0	866.2	871.0	871.9
15°	863.3	856.6	855.6	860.4	860.4
17.5°	850.8	850.8	843.1	843.1	847.0
20°	832.6	835.4	831.6	831.6	830.6
22.5°	818.2	816.2	813.4	821.0	817.2
25°	811.4	802.8	798.9	797.0	798.0
27.5°	787.4	789.3	780.7	776.9	781.7
30°	765.3	764.4	759.6	761.5	758.6
32.5°	751.9	743.3	740.4	738.5	738.5
35°	728.8	727.9	719.2	711.6	715.4
37.5°	701.0	701.0	693.3	691.4	690.4
40°	680.8	674.1	667.4	668.4	665.5
42.5°	656.8	652.0	644.3	636.7	640.5
45°	629.0	626.1	615.5	612.7	614.6
47.5°	602.1	595.4	588.6	588.6	584.8
50°	573.3	567.5	562.7	557.0	558.9
52.5°	541.6	540.6	527.2	524.3	528.2
55°	510.9	508.0	497.4	497.4	493.6
57.5°	479.2	474.4	465.7	462.9	461.9
60°	444.6	438.8	425.4	422.5	429.2
62.5°	408.1	402.4	389.9	390.8	393.7
65°	371.6	366.8	352.4	357.2	357.2
67.5°	332.3	324.6	312.1	314.0	311.1
70°	291.0	286.2	276.6	266.0	258.3
72.5°	250.6	244.9	240.1	215.1	202.6
75°	206.5	200.7	193.0	168.0	155.6
77.5°	166.1	161.3	144.0	126.8	129.6
80°	121.0	126.8	106.6	113.3	116.2
82.5°	82.6	83.5	87.4	92.2	90.3
85°	46.1	49.9	58.6	58.6	58.6
87.5°	17.3	25.0	25.9	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)