

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: P393045

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393045  
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-L92765-W2A-1-U (4000K)  
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2313.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

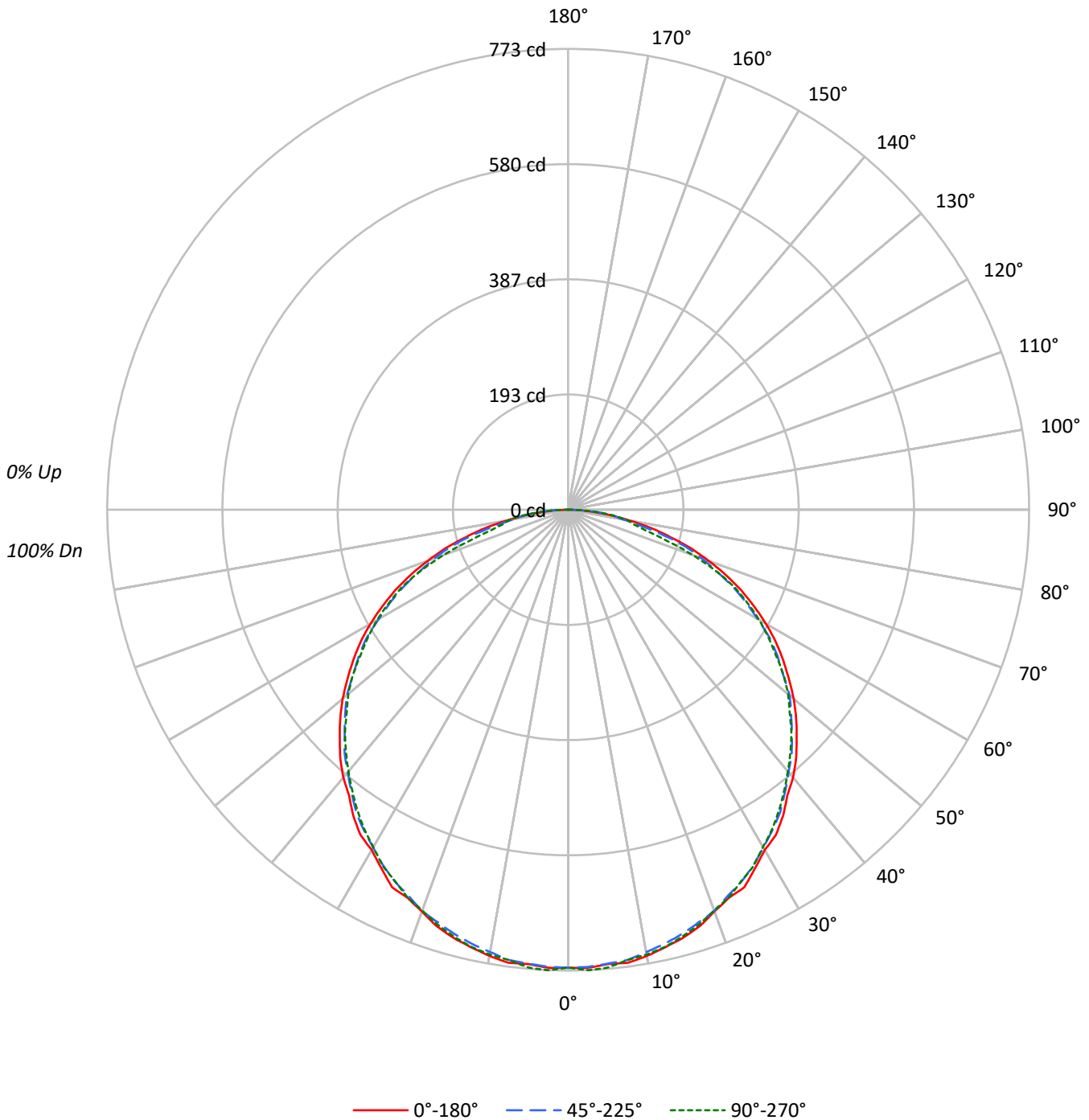
Input Watts (W): 28.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2067	2067	2067
5°	2066	2064	2082
10°	2077	2059	2070
15°	2071	2053	2064
20°	2053	2051	2049
25°	2075	2043	2041
30°	2048	2033	2030
35°	2062	2035	2024
40°	2060	2019	2013
45°	2062	2017	2014
50°	2067	2029	2015
55°	2064	2010	1994
60°	2061	1972	1990
65°	2038	1933	1959
70°	1972	1874	1751
75°	1849	1728	1393
80°	1615	1423	1551
85°	1226	1556	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.2
10°-20°	208.8	9.0
20°-30°	317.9	13.7
30°-40°	387.7	16.8
40°-50°	411.4	17.8
50°-60°	385.1	16.6
60°-70°	304.3	13.2
70°-80°	172.2	7.4
80°-90°	52.8	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°	599.6	25.9
0°-40°	987.3	42.7
0°-60°	1783.8	77.1
0°-90°	2313.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	765	766	764	769	771	73
15°	744	738	737	741	741	210
25°	699	691	688	686	687	320
35°	628	627	620	613	616	392
45°	542	539	530	528	529	418
55°	440	438	428	428	425	393
65°	320	316	304	308	308	315
75°	178	173	166	145	134	188
85°	40	43	50	50	50	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.3	768.3	768.3	768.3	768.3
2.5°	769.1	770.0	767.5	768.3	773.3
5°	765.0	765.8	764.2	769.1	770.8
7.5°	766.7	762.5	761.7	763.4	761.7
10°	760.0	759.2	753.4	755.1	757.6
12.5°	751.8	750.1	746.0	750.1	751.0
15°	743.5	737.7	736.9	741.0	741.0
17.5°	732.8	732.8	726.1	726.1	729.4
20°	717.0	719.5	716.2	716.2	715.4
22.5°	704.6	703.0	700.5	707.1	703.8
25°	698.8	691.4	688.1	686.4	687.3
27.5°	678.2	679.8	672.4	669.1	673.2
30°	659.1	658.3	654.2	655.8	653.4
32.5°	647.6	640.1	637.6	636.0	636.0
35°	627.7	626.9	619.5	612.8	616.1
37.5°	603.7	603.7	597.1	595.5	594.6
40°	586.4	580.6	574.8	575.6	573.1
42.5°	565.7	561.6	554.9	548.3	551.6
45°	541.7	539.2	530.1	527.7	529.3
47.5°	518.6	512.8	507.0	507.0	503.7
50°	493.7	488.8	484.6	479.7	481.3
52.5°	466.4	465.6	454.0	451.6	454.9
55°	440.0	437.5	428.4	428.4	425.1
57.5°	412.7	408.6	401.1	398.6	397.8
60°	382.9	378.0	366.4	363.9	369.7
62.5°	351.5	346.5	335.8	336.6	339.1
65°	320.1	315.9	303.5	307.7	307.7
67.5°	286.2	279.5	268.8	270.4	268.0
70°	250.6	246.5	238.2	229.1	222.5
72.5°	215.9	210.9	206.8	185.3	174.5
75°	177.8	172.9	166.2	144.7	134.0
77.5°	143.1	138.9	124.1	109.2	111.7
80°	104.2	109.2	91.8	97.6	100.1
82.5°	71.1	72.0	75.3	79.4	77.7
85°	39.7	43.0	50.4	50.4	50.4
87.5°	14.9	21.5	22.3	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)