

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: P393048

Luminaire Tested: **14EN-LD2-28-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393048
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 (5700K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2393.7 lumens
Efficiency: N/A
Efficacy: 83.4 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

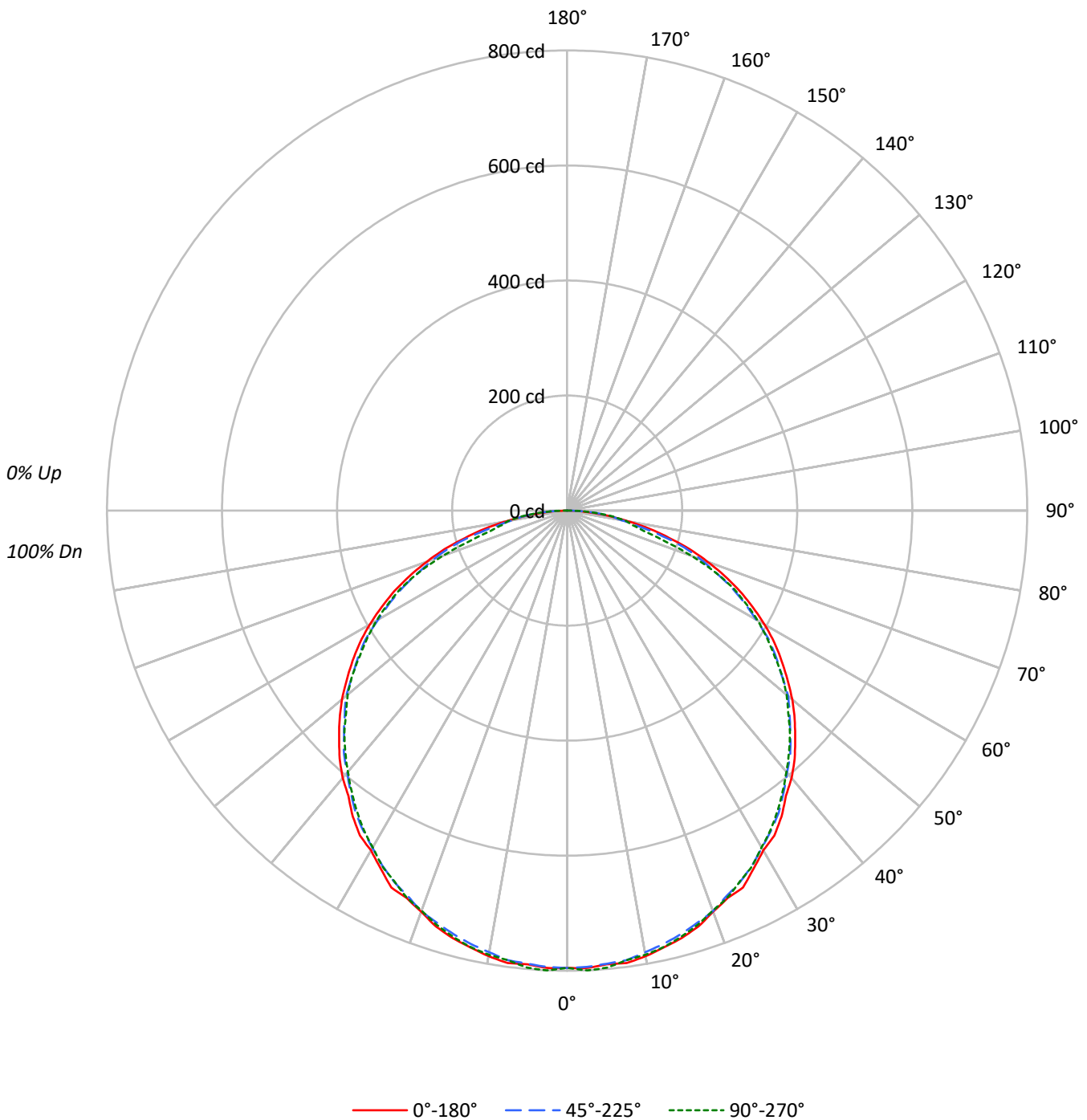
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393048

CATALOG NUMBER: 14EN-LD2-28-UNV-L92765-W2A-1-U (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393048

CATALOG NUMBER: 14EN-LD2-28-UNV-L92765-W2A-1-U (5700K)

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°	2140	2140	2140
5°	2139	2136	2155
10°	2149	2131	2142
15°	2143	2125	2137
20°	2125	2123	2120
25°	2147	2114	2112
30°	2119	2104	2101
35°	2134	2106	2095
40°	2132	2089	2083
45°	2133	2088	2085
50°	2139	2099	2085
55°	2136	2080	2064
60°	2133	2041	2059
65°	2109	2000	2027
70°	2040	1939	1811
75°	1913	1788	1442
80°	1671	1472	1605
85°	1269	1612	1612



TEST NUMBER: P393048

CATALOG NUMBER: 14EN-LD2-28-UNV-L92765-W2A-1-U (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.2
10°-20°	216.1	9.0
20°-30°	329.0	13.7
30°-40°	401.2	16.8
40°-50°	425.7	17.8
50°-60°	398.5	16.6
60°-70°	314.9	13.2
70°-80°	178.2	7.4
80°-90°	54.7	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°	620.5	25.9
0°-40°	1021.7	42.7
0°-60°	1846.0	77.1
0°-90°	2393.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	792	792	791	796	798	76
15°	769	763	763	767	767	217
25°	723	716	712	710	711	331
35°	650	649	641	634	638	406
45°	561	558	549	546	548	433
55°	455	453	443	443	440	407
65°	331	327	314	318	318	326
75°	184	179	172	150	139	195
85°	41	44	52	52	52	50
90°	0	0	0	0	0	



TEST NUMBER: P393048

CATALOG NUMBER: 14EN-LD2-28-UNV-L92765-W2A-1-U (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	796.0	796.8	794.2	795.1	800.2
5°	791.7	792.5	790.8	796.0	797.7
7.5°	793.4	789.1	788.3	790.0	788.3
10°	786.5	785.7	779.7	781.4	784.0
12.5°	778.0	776.3	772.0	776.3	777.1
15°	769.4	763.4	762.6	766.9	766.9
17.5°	758.3	758.3	751.5	751.5	754.9
20°	742.0	744.6	741.2	741.2	740.3
22.5°	729.2	727.5	724.9	731.8	728.3
25°	723.2	715.5	712.1	710.4	711.2
27.5°	701.8	703.5	695.8	692.4	696.7
30°	682.1	681.3	677.0	678.7	676.1
32.5°	670.1	662.4	659.9	658.2	658.2
35°	649.6	648.7	641.0	634.2	637.6
37.5°	624.8	624.8	617.9	616.2	615.4
40°	606.8	600.8	594.8	595.7	593.1
42.5°	585.4	581.1	574.3	567.4	570.9
45°	560.6	558.0	548.6	546.0	547.8
47.5°	536.6	530.6	524.6	524.6	521.2
50°	511.0	505.8	501.5	496.4	498.1
52.5°	482.7	481.9	469.9	467.3	470.7
55°	455.3	452.8	443.3	443.3	439.9
57.5°	427.1	422.8	415.1	412.5	411.7
60°	396.3	391.1	379.2	376.6	382.6
62.5°	363.7	358.6	347.5	348.3	350.9
65°	331.2	326.9	314.1	318.4	318.4
67.5°	296.1	289.3	278.2	279.9	277.3
70°	259.3	255.0	246.5	237.1	230.2
72.5°	223.4	218.2	214.0	191.7	180.6
75°	184.0	178.9	172.0	149.8	138.7
77.5°	148.1	143.8	128.4	113.0	115.5
80°	107.8	113.0	95.0	101.0	103.6
82.5°	73.6	74.5	77.9	82.2	80.5
85°	41.1	44.5	52.2	52.2	52.2
87.5°	15.4	22.3	23.1	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)