

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: P393050

Luminaire Tested: **14EN-LD2-28-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393050
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-L93050-W2A-1-U (2700K)
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: 2414.9 lumens
Efficiency: N/A
Efficacy: 84.1 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

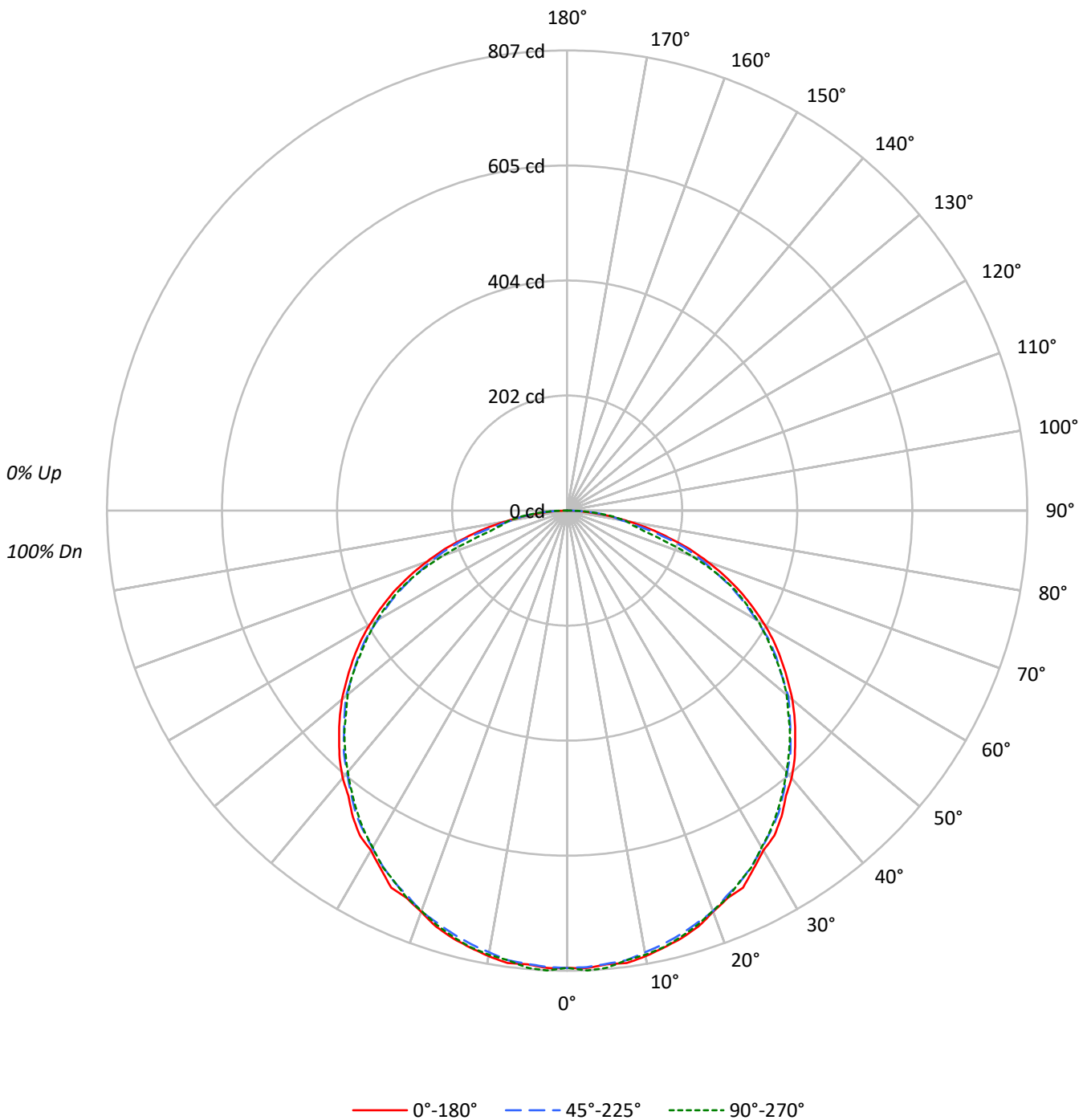
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393050

CATALOG NUMBER: 14EN-LD2-28-UNV-L93050-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393050

CATALOG NUMBER: 14EN-LD2-28-UNV-L93050-W2A-1-U (2700K)

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°	2158	2158	2158
5°	2157	2155	2174
10°	2168	2149	2161
15°	2162	2143	2155
20°	2144	2141	2139
25°	2166	2133	2130
30°	2138	2122	2119
35°	2153	2124	2113
40°	2151	2108	2102
45°	2152	2106	2103
50°	2158	2118	2104
55°	2155	2099	2082
60°	2152	2059	2077
65°	2127	2018	2045
70°	2058	1957	1828
75°	1930	1804	1455
80°	1686	1485	1619
85°	1278	1627	1627



TEST NUMBER: P393050

CATALOG NUMBER: 14EN-LD2-28-UNV-L93050-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.2
10°-20°	218.0	9.0
20°-30°	331.9	13.7
30°-40°	404.8	16.8
40°-50°	429.5	17.8
50°-60°	402.0	16.6
60°-70°	317.7	13.2
70°-80°	179.8	7.4
80°-90°	55.1	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°	626.0	25.9
0°-40°	1030.8	42.7
0°-60°	1862.3	77.1
0°-90°	2414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2414.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	799	800	798	803	805	76
15°	776	770	769	774	774	219
25°	730	722	718	717	718	334
35°	655	654	647	640	643	409
45°	566	563	554	551	553	437
55°	459	457	447	447	444	411
65°	334	330	317	321	321	329
75°	186	180	174	151	140	197
85°	41	45	53	53	53	50
90°	0	0	0	0	0	



TEST NUMBER: P393050

CATALOG NUMBER: 14EN-LD2-28-UNV-L93050-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.1	802.1	802.1	802.1	802.1
2.5°	803.0	803.9	801.3	802.1	807.3
5°	798.7	799.5	797.8	803.0	804.7
7.5°	800.4	796.1	795.2	796.9	795.2
10°	793.5	792.6	786.6	788.3	790.9
12.5°	784.9	783.1	778.8	783.1	784.0
15°	776.2	770.2	769.3	773.6	773.6
17.5°	765.0	765.0	758.1	758.1	761.5
20°	748.6	751.2	747.7	747.7	746.9
22.5°	735.6	733.9	731.3	738.2	734.8
25°	729.6	721.8	718.4	716.6	717.5
27.5°	708.0	709.7	702.0	698.5	702.8
30°	688.2	687.3	683.0	684.7	682.1
32.5°	676.1	668.3	665.7	664.0	664.0
35°	655.3	654.5	646.7	639.8	643.3
37.5°	630.3	630.3	623.4	621.7	620.8
40°	612.2	606.1	600.1	600.9	598.4
42.5°	590.6	586.3	579.4	572.5	575.9
45°	565.5	563.0	553.5	550.9	552.6
47.5°	541.4	535.3	529.3	529.3	525.8
50°	515.5	510.3	506.0	500.8	502.5
52.5°	487.0	486.1	474.0	471.4	474.9
55°	459.3	456.8	447.3	447.3	443.8
57.5°	430.9	426.5	418.8	416.2	415.3
60°	399.8	394.6	382.5	379.9	386.0
62.5°	367.0	361.8	350.6	351.4	354.0
65°	334.1	329.8	316.9	321.2	321.2
67.5°	298.7	291.8	280.6	282.3	279.8
70°	261.6	257.3	248.7	239.2	232.3
72.5°	225.4	220.2	215.9	193.4	182.2
75°	185.6	180.5	173.5	151.1	139.9
77.5°	149.4	145.1	129.5	114.0	116.6
80°	108.8	114.0	95.8	101.9	104.5
82.5°	74.3	75.1	78.6	82.9	81.2
85°	41.4	44.9	52.7	52.7	52.7
87.5°	15.5	22.4	23.3	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)