

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: P393141

Luminaire Tested: **14EN-LD2-43-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L92765-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3517.2 lumens
Efficiency: N/A
Efficacy: 84.5 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

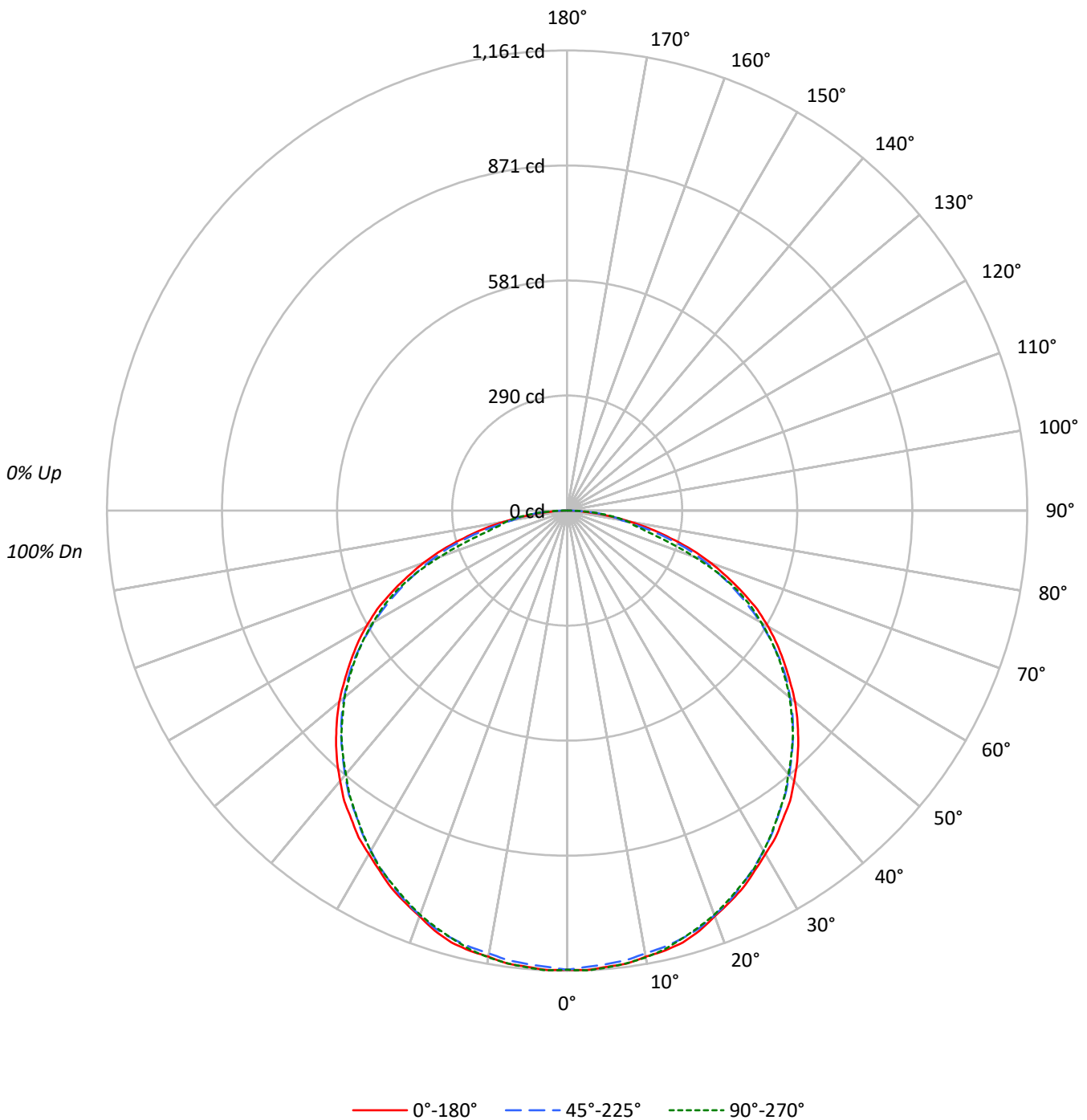
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	35	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°	3118	3118	3118
5°	3121	3103	3125
10°	3123	3101	3128
15°	3143	3115	3115
20°	3119	3112	3107
25°	3119	3097	3091
30°	3109	3079	3081
35°	3119	3062	3059
40°	3129	3062	3051
45°	3138	3069	3065
50°	3144	3075	3068
55°	3135	3077	3061
60°	3151	3027	3049
65°	3112	2949	3007
70°	3032	2863	2700
75°	2811	2640	2201
80°	2486	2152	2371
85°	1812	2350	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.1
10°-20°	316.2	9.0
20°-30°	481.1	13.7
30°-40°	587.3	16.7
40°-50°	625.7	17.8
50°-60°	586.6	16.7
60°-70°	466.0	13.2
70°-80°	264.9	7.5
80°-90°	79.5	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°	907.1	25.8
0°-40°	1494.4	42.5
0°-60°	2706.8	77.0
0°-90°	3517.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3517.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1155	1153	1149	1158	1157	110
15°	1128	1125	1118	1116	1118	318
25°	1050	1045	1043	1040	1041	484
35°	949	941	932	935	931	595
45°	825	820	806	804	806	636
55°	668	662	656	648	652	598
65°	489	480	463	469	472	483
75°	270	268	254	226	212	288
85°	59	64	76	76	78	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.7	1158.7	1158.7	1158.7	1158.7
2.5°	1160.3	1157.0	1152.1	1162.8	1161.2
5°	1155.4	1152.9	1148.8	1157.9	1157.0
7.5°	1152.9	1147.9	1143.8	1153.7	1152.1
10°	1143.0	1143.8	1134.7	1144.6	1144.6
12.5°	1137.2	1135.5	1128.1	1131.4	1133.9
15°	1128.1	1124.8	1118.2	1116.5	1118.2
17.5°	1111.5	1108.2	1105.7	1100.0	1102.4
20°	1089.2	1090.9	1086.7	1081.8	1085.1
22.5°	1070.2	1068.5	1066.9	1061.9	1063.6
25°	1050.3	1045.4	1042.9	1039.6	1041.2
27.5°	1024.7	1021.4	1018.1	1016.4	1019.7
30°	1000.7	995.8	990.8	989.1	991.6
32.5°	978.4	969.3	963.5	964.3	961.8
35°	949.4	941.2	932.1	934.6	931.2
37.5°	923.8	913.9	904.0	906.4	902.3
40°	890.7	884.9	871.7	873.4	868.4
42.5°	859.3	856.0	838.6	839.4	837.0
45°	824.6	820.4	806.4	803.9	805.5
47.5°	788.2	784.0	771.6	765.8	768.3
50°	750.9	746.0	734.4	729.4	732.8
52.5°	708.8	706.3	697.2	689.7	692.2
55°	668.2	662.5	655.8	647.6	652.5
57.5°	628.5	621.9	609.5	605.4	610.4
60°	585.5	574.8	562.4	559.1	566.5
62.5°	540.9	528.5	512.8	513.6	522.7
65°	488.8	480.5	463.1	468.9	472.2
67.5°	435.8	429.2	412.7	421.0	411.9
70°	385.4	377.1	363.9	353.1	343.2
72.5°	331.6	321.7	313.4	285.3	273.7
75°	270.4	268.0	253.9	225.8	211.7
77.5°	218.3	212.5	193.5	172.0	173.7
80°	160.4	164.6	138.9	148.9	153.0
82.5°	105.9	108.3	115.0	119.9	119.1
85°	58.7	64.5	76.1	76.1	77.7
87.5°	22.3	28.9	33.1	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)