

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: P183974

Luminaire Tested: **14SR-LD2-35-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-35-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.7 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

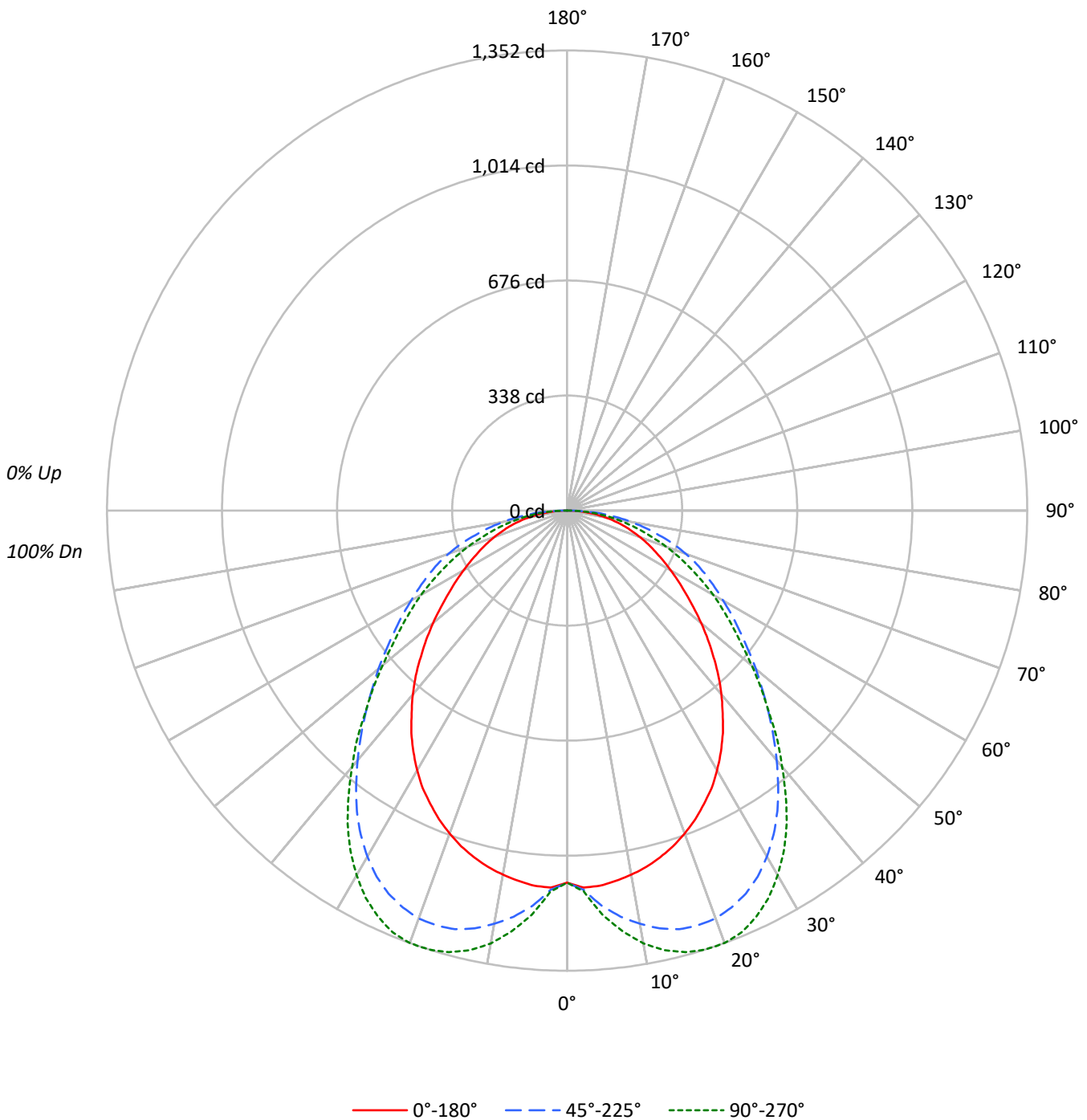
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2989	3148	3220
10°	2968	3369	3529
15°	2939	3547	3742
20°	2891	3653	3872
25°	2824	3687	3908
30°	2738	3648	3844
35°	2621	3539	3694
40°	2478	3365	3451
45°	2315	3182	3191
50°	2151	3029	2963
55°	1998	2907	2780
60°	1892	2850	2668
65°	1823	2870	2539
70°	1792	2908	2429
75°	1780	2906	2321
80°	1748	2934	2270
85°	1670	3060	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.2
10°-20°	350.0	9.9
20°-30°	549.1	15.5
30°-40°	640.2	18.1
40°-50°	609.2	17.2
50°-60°	514.3	14.6
60°-70°	400.7	11.3
70°-80°	261.3	7.4
80°-90°	95.1	2.7
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°	1010.9	28.6
0°-40°	1651.1	46.8
0°-60°	2774.6	78.6
0°-90°	3531.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1107	1111	1165	1192	1192	105
15°	1055	1158	1273	1330	1343	297
25°	951	1107	1242	1300	1316	438
35°	798	955	1077	1116	1124	498
45°	608	746	836	845	838	470
55°	426	559	620	602	593	383
65°	286	410	451	415	399	285
75°	171	275	280	234	223	180
85°	54	117	99	76	74	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1108.7	1095.3	1115.5	1129.0	1120.0
5°	1106.6	1111.0	1165.2	1192.1	1192.1
7.5°	1097.4	1129.0	1203.4	1239.4	1246.2
10°	1086.3	1144.7	1232.8	1280.1	1291.4
12.5°	1072.7	1156.0	1257.5	1309.3	1322.9
15°	1054.8	1158.4	1273.3	1329.6	1343.2
17.5°	1034.3	1153.9	1277.8	1338.7	1352.1
20°	1009.6	1144.7	1275.6	1336.4	1352.1
22.5°	982.5	1129.0	1262.0	1322.9	1340.9
25°	951.0	1106.6	1241.7	1300.3	1316.1
27.5°	919.4	1075.0	1212.5	1266.5	1282.2
30°	881.2	1041.1	1174.1	1225.9	1237.2
32.5°	840.5	1000.6	1129.0	1176.3	1185.4
35°	797.7	955.4	1077.2	1115.5	1124.5
37.5°	750.4	903.6	1018.5	1052.4	1054.8
40°	705.4	851.8	957.8	984.8	982.5
42.5°	658.1	800.0	897.0	914.9	914.9
45°	608.4	745.9	836.1	845.0	838.4
47.5°	561.1	696.4	777.4	779.8	773.0
50°	513.8	646.8	723.5	716.7	707.7
52.5°	468.8	599.4	669.4	655.7	646.8
55°	425.9	558.9	619.7	601.8	592.6
57.5°	387.6	518.4	574.7	552.1	543.2
60°	351.5	480.1	529.5	504.8	495.8
62.5°	317.8	444.0	489.0	459.8	446.2
65°	286.3	410.1	450.7	414.6	398.8
67.5°	256.9	376.3	412.5	367.3	353.9
70°	227.7	342.6	369.6	322.3	308.7
72.5°	198.3	308.7	328.9	277.1	263.7
75°	171.2	275.0	279.5	234.3	223.2
77.5°	142.0	245.6	236.6	193.8	182.5
80°	112.8	207.4	189.3	153.3	146.5
82.5°	83.4	162.2	144.3	114.9	110.4
85°	54.1	117.2	99.1	76.5	74.4
87.5°	27.1	63.1	49.7	38.4	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)