

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: P183904

Luminaire Tested: **14SR-LD2-20-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-20-C-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: 2110.4 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

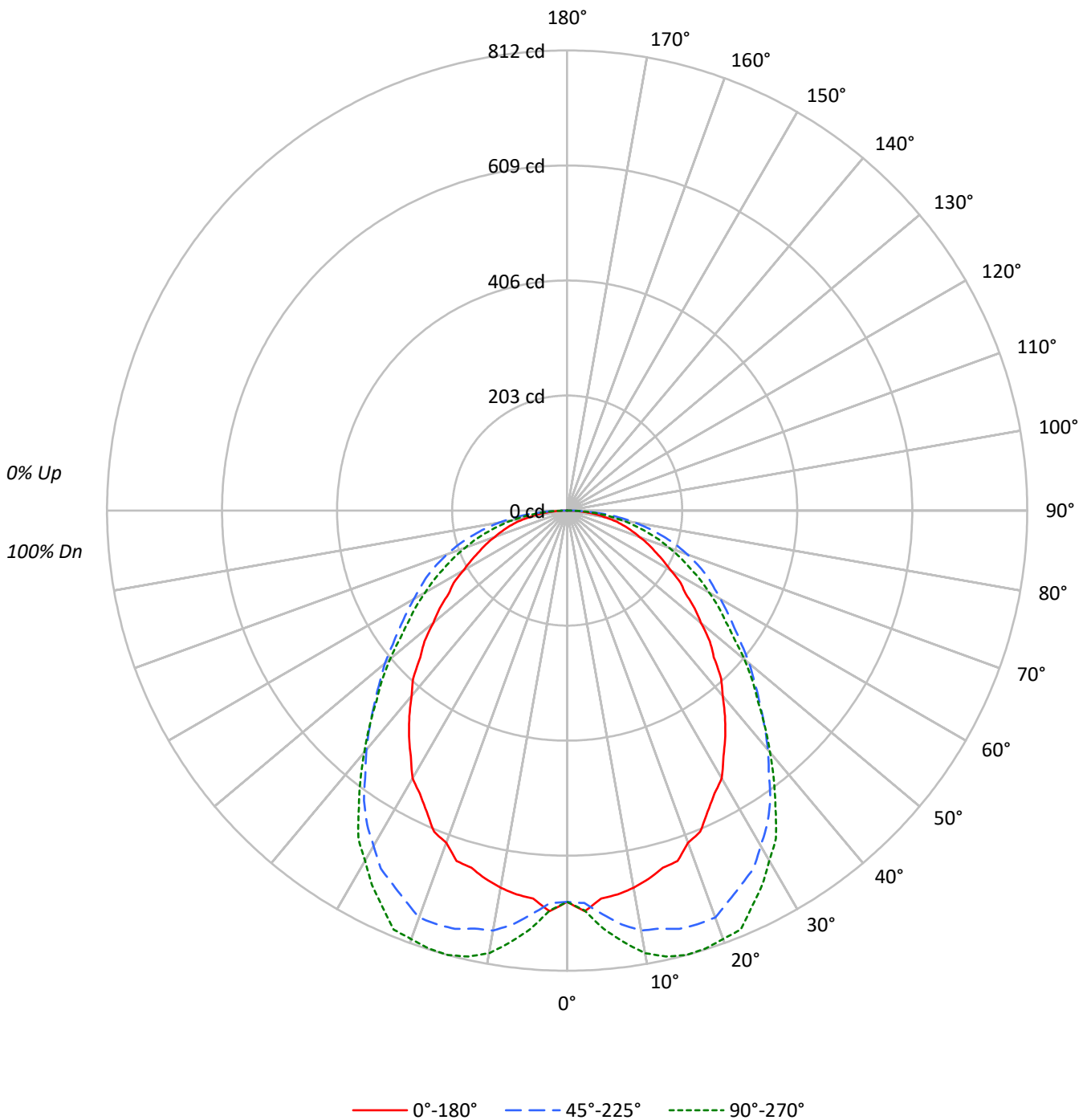
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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°	1858	1858	1858
5°	1857	1931	2001
10°	1847	2056	2167
15°	1818	2129	2262
20°	1786	2188	2304
25°	1740	2161	2290
30°	1695	2122	2217
35°	1597	2054	2106
40°	1500	1937	1957
45°	1393	1828	1812
50°	1290	1757	1708
55°	1195	1690	1602
60°	1137	1682	1558
65°	1088	1732	1521
70°	1070	1776	1503
75°	1083	1821	1504
80°	1054	1884	1525
85°	1028	1920	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.3
10°-20°	213.6	10.1
20°-30°	328.9	15.6
30°-40°	376.5	17.8
40°-50°	355.9	16.9
50°-60°	302.2	14.3
60°-70°	240.3	11.4
70°-80°	162.9	7.7
80°-90°	60.4	2.9
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°	612.0	29.0
0°-40°	988.5	46.8
0°-60°	1646.6	78.0
0°-90°	2110.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	687	702	715	740	741	65
15°	653	722	764	809	812	185
25°	586	684	728	767	771	270
35°	486	585	625	642	641	304
45°	366	453	480	486	476	285
55°	255	331	360	352	342	231
65°	171	245	272	249	239	171
75°	104	168	175	150	145	109
85°	33	71	62	51	49	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.3	690.3	690.3	690.3	690.3
2.5°	707.6	697.5	693.1	707.6	706.2
5°	687.4	701.8	714.9	739.5	740.9
7.5°	683.0	716.3	736.6	766.9	768.4
10°	675.8	719.2	752.5	788.7	793.0
12.5°	665.6	722.1	755.4	800.2	806.0
15°	652.6	722.1	764.1	808.9	811.8
17.5°	648.3	722.1	765.5	804.6	810.4
20°	623.7	714.9	764.1	798.8	804.6
22.5°	613.6	701.8	745.2	787.2	800.2
25°	586.1	684.5	727.9	766.9	771.3
27.5°	562.9	665.6	712.0	745.2	745.2
30°	545.5	642.5	683.0	714.9	713.4
32.5°	513.7	610.7	657.0	681.6	685.9
35°	486.2	584.6	625.1	642.5	641.0
37.5°	457.3	551.3	584.6	604.9	599.1
40°	426.9	518.0	551.3	564.4	557.1
42.5°	402.3	483.3	515.2	523.8	516.6
45°	366.1	452.9	480.4	486.2	476.1
47.5°	341.5	419.6	448.6	448.6	442.8
50°	308.2	387.8	419.6	411.0	408.1
52.5°	283.6	360.3	387.8	380.6	371.9
55°	254.7	331.4	360.3	351.6	341.5
57.5°	237.3	308.2	335.7	325.6	316.9
60°	211.3	285.1	312.6	299.5	289.4
62.5°	191.0	264.8	290.9	274.9	264.8
65°	170.8	244.6	272.0	248.9	238.8
67.5°	154.8	225.7	248.9	224.3	215.6
70°	136.0	204.0	225.7	199.7	191.0
72.5°	120.1	186.7	201.1	175.1	169.3
75°	104.2	167.9	175.1	150.5	144.7
77.5°	88.3	149.0	149.0	127.3	121.6
80°	68.0	127.3	121.6	102.7	98.4
82.5°	52.1	101.3	92.6	76.7	73.8
85°	33.3	70.9	62.2	50.6	49.2
87.5°	15.9	37.6	30.4	24.6	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)