

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: P183949

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183949
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-LD2-20-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: 2104.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

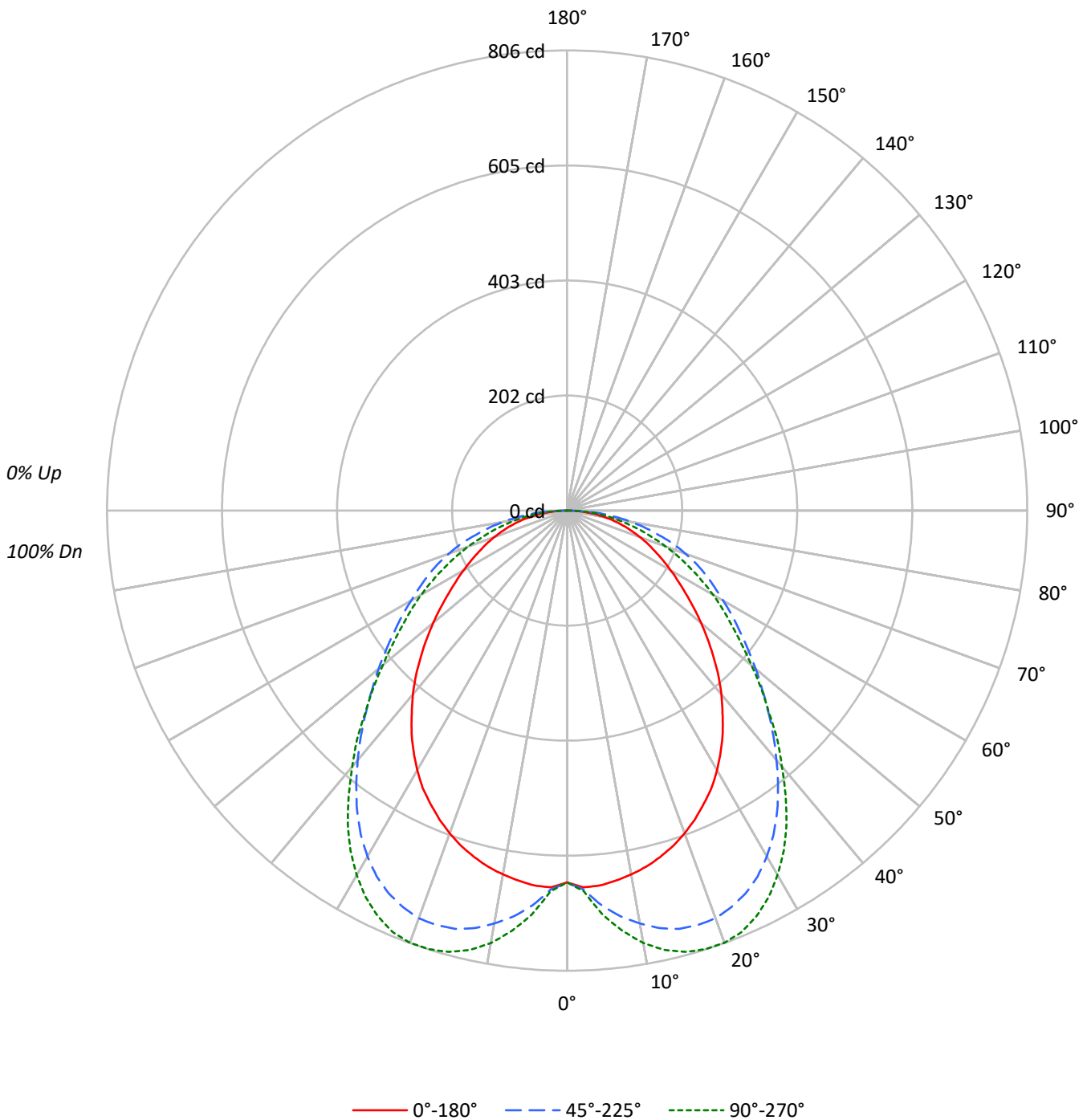
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1752	1752	1752
5°	1781	1875	1918
10°	1768	2007	2102
15°	1751	2113	2229
20°	1722	2176	2307
25°	1682	2196	2328
30°	1631	2174	2290
35°	1561	2108	2201
40°	1476	2004	2056
45°	1379	1896	1901
50°	1281	1804	1765
55°	1190	1732	1657
60°	1127	1698	1590
65°	1086	1710	1513
70°	1067	1733	1447
75°	1061	1731	1383
80°	1041	1748	1351
85°	997	1825	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.2
10°-20°	208.5	9.9
20°-30°	327.1	15.5
30°-40°	381.4	18.1
40°-50°	362.9	17.2
50°-60°	306.4	14.6
60°-70°	238.7	11.3
70°-80°	155.7	7.4
80°-90°	56.7	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°	602.2	28.6
0°-40°	983.7	46.8
0°-60°	1653.0	78.6
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	659	662	694	710	710	62
15°	628	690	758	792	800	177
25°	566	659	740	775	784	261
35°	475	569	642	665	670	296
45°	362	444	498	503	500	280
55°	254	333	369	358	353	228
65°	170	244	268	247	238	170
75°	102	164	166	140	133	107
85°	32	70	59	46	44	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.1	651.1	651.1	651.1	651.1
2.5°	660.5	652.5	664.6	672.6	667.2
5°	659.2	661.9	694.1	710.2	710.2
7.5°	653.8	672.6	716.9	738.4	742.4
10°	647.2	682.0	734.4	762.6	769.3
12.5°	639.0	688.7	749.1	780.0	788.1
15°	628.4	690.1	758.5	792.1	800.2
17.5°	616.2	687.4	761.2	797.5	805.5
20°	601.4	682.0	759.9	796.1	805.5
22.5°	585.3	672.6	751.8	788.1	798.8
25°	566.5	659.2	739.7	774.7	784.1
27.5°	547.7	640.4	722.3	754.5	763.9
30°	525.0	620.2	699.5	730.3	737.1
32.5°	500.7	596.1	672.6	700.8	706.2
35°	475.2	569.2	641.7	664.6	669.9
37.5°	447.0	538.3	606.8	627.0	628.4
40°	420.2	507.5	570.6	586.7	585.3
42.5°	392.0	476.6	534.4	545.1	545.1
45°	362.4	444.4	498.1	503.4	499.5
47.5°	334.3	414.9	463.2	464.5	460.5
50°	306.1	385.3	431.0	427.0	421.6
52.5°	279.3	357.1	398.8	390.6	385.3
55°	253.7	333.0	369.2	358.5	353.1
57.5°	230.9	308.8	342.4	328.9	323.6
60°	209.4	286.0	315.5	300.7	295.4
62.5°	189.3	264.5	291.3	273.9	265.8
65°	170.5	244.3	268.5	247.0	237.6
67.5°	153.0	224.2	245.7	218.8	210.8
70°	135.6	204.1	220.2	192.0	183.9
72.5°	118.1	183.9	196.0	165.1	157.1
75°	102.0	163.8	166.5	139.6	133.0
77.5°	84.6	146.3	141.0	115.4	108.7
80°	67.2	123.6	112.8	91.3	87.2
82.5°	49.7	96.6	86.0	68.5	65.8
85°	32.3	69.8	59.1	45.6	44.3
87.5°	16.1	37.6	29.6	22.9	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)