

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: P184009

Luminaire Tested: **12SR-LD2-9-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166788)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SR-LD2-9-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

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

Summary

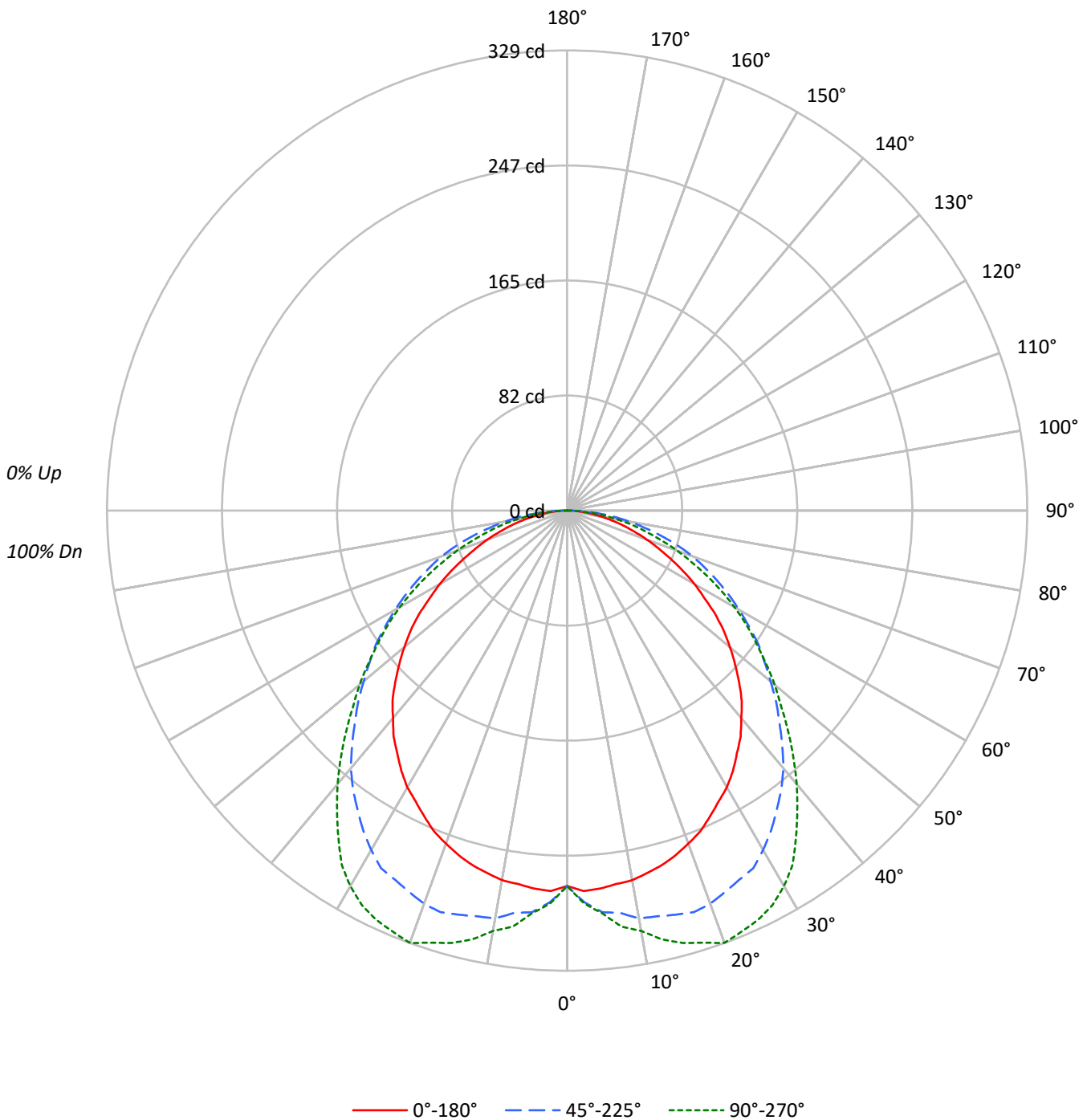
Lumens per Lamp: N/A
Luminaire Lumens: 893.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 9.1
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	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1444	1444	1444
5°	1466	1557	1562
10°	1466	1618	1667
15°	1461	1667	1783
20°	1451	1713	1884
25°	1434	1729	1917
30°	1420	1741	1927
35°	1391	1717	1874
40°	1361	1690	1794
45°	1324	1633	1702
50°	1273	1589	1622
55°	1212	1567	1547
60°	1133	1530	1486
65°	1038	1505	1405
70°	954	1501	1314
75°	867	1445	1219
80°	769	1385	1141
85°	735	1346	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	3.1
10°-20°	83.6	9.4
20°-30°	132.1	14.8
30°-40°	158.8	17.8
40°-50°	158.9	17.8
50°-60°	139.8	15.6
60°-70°	106.8	12.0
70°-80°	65.4	7.3
80°-90°	21.1	2.4
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°	242.9	27.2
0°-40°	401.8	45.0
0°-60°	700.5	78.4
0°-90°	893.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	268	268	268	268	268	
5°	271	277	288	289	289	26
15°	262	277	299	314	320	74
25°	241	258	291	314	323	111
35°	212	228	261	280	285	133
45°	174	186	215	223	224	134
55°	129	146	167	166	165	115
65°	82	104	118	112	110	81
75°	42	67	70	62	59	44
85°	12	24	22	17	16	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	268.3	268.3	268.3	268.3	268.3
2.5°	272.3	271.3	280.2	281.2	281.2
5°	271.3	277.3	288.2	289.1	289.1
7.5°	269.3	281.2	290.1	297.1	300.1
10°	268.3	282.2	296.1	301.1	305.1
12.5°	265.3	280.2	297.1	308.1	314.0
15°	262.3	277.3	299.1	314.0	320.0
17.5°	258.3	275.2	301.1	317.0	323.9
20°	253.4	272.3	299.1	319.0	328.9
22.5°	248.4	265.3	295.1	317.9	325.9
25°	241.4	258.3	291.2	314.0	322.9
27.5°	234.5	251.4	288.2	310.0	317.9
30°	228.5	244.4	280.2	301.1	310.0
32.5°	220.6	236.5	271.3	292.1	300.1
35°	211.7	227.5	261.3	280.2	285.2
37.5°	203.7	217.6	251.4	266.3	270.3
40°	193.7	206.7	240.5	251.4	255.4
42.5°	184.8	197.7	227.5	239.5	239.5
45°	173.9	185.8	214.6	222.6	223.6
47.5°	162.9	176.8	202.7	207.7	207.7
50°	152.0	167.0	189.8	193.7	193.7
52.5°	141.1	156.0	177.9	179.8	178.9
55°	129.2	146.0	167.0	165.9	164.9
57.5°	116.3	135.1	154.0	152.0	152.0
60°	105.3	125.2	142.1	139.1	138.1
62.5°	93.4	114.3	130.2	126.2	124.2
65°	81.5	104.3	118.2	112.3	110.3
67.5°	70.6	95.4	106.3	98.4	96.4
70°	60.6	85.5	95.4	85.5	83.5
72.5°	50.7	75.5	82.5	73.5	70.6
75°	41.7	66.6	69.5	61.6	58.6
77.5°	32.8	56.6	56.6	48.7	47.7
80°	24.8	46.7	44.7	37.8	36.8
82.5°	17.9	34.8	33.8	27.8	25.9
85°	11.9	23.9	21.8	16.9	15.9
87.5°	6.0	11.9	9.9	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)