

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: P183885

Luminaire Tested: **22SR-LD2-25-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-25-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2853.5 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

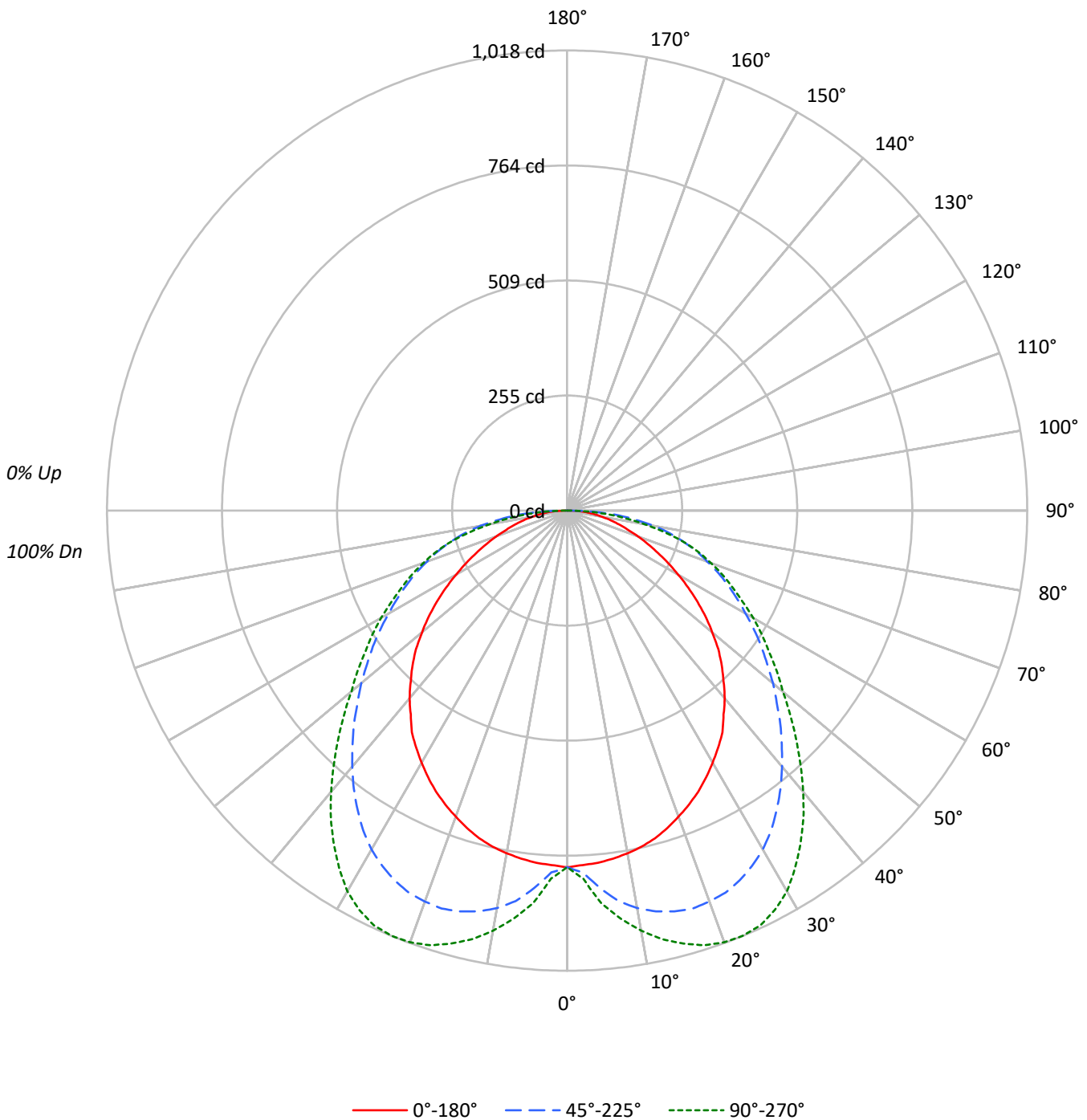
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2113	2264	2357
10°	2103	2440	2579
15°	2091	2557	2763
20°	2063	2636	2911
25°	2037	2680	3006
30°	2000	2690	3022
35°	1966	2655	2956
40°	1905	2598	2853
45°	1840	2539	2726
50°	1755	2489	2609
55°	1651	2461	2558
60°	1526	2455	2558
65°	1413	2503	2573
70°	1315	2597	2662
75°	1239	2777	2763
80°	1189	3014	2696
85°	1312	3298	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	2.8
10°-20°	254.4	8.9
20°-30°	405.9	14.2
30°-40°	488.5	17.1
40°-50°	490.0	17.2
50°-60°	438.0	15.4
60°-70°	354.9	12.4
70°-80°	247.1	8.7
80°-90°	94.0	3.3
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°	741.0	26.0
0°-40°	1229.6	43.1
0°-60°	2157.6	75.6
0°-90°	2853.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	782	800	838	866	872	74
15°	751	838	918	972	992	211
25°	686	794	903	984	1012	316
35°	599	693	808	879	900	373
45°	484	566	667	707	716	372
55°	352	441	525	541	545	314
65°	222	325	393	399	404	221
75°	119	219	267	266	266	127
85°	42	94	107	92	86	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.0	789.0	789.0	789.0	789.0
2.5°	784.9	789.0	801.3	812.3	815.0
5°	782.1	799.9	838.3	865.7	872.5
7.5°	776.7	813.6	871.2	899.9	910.9
10°	769.8	828.7	893.1	930.1	943.8
12.5°	761.6	838.3	908.1	954.7	971.2
15°	750.6	838.3	917.7	972.5	991.7
17.5°	736.9	834.2	923.2	984.9	1008.1
20°	720.5	826.0	920.5	991.7	1016.4
22.5°	704.1	812.3	915.0	991.7	1017.7
25°	686.2	794.5	902.7	983.5	1012.3
27.5°	665.7	773.9	886.2	968.4	995.8
30°	643.8	749.3	865.7	946.5	972.5
32.5°	621.9	721.9	839.7	916.4	938.3
35°	598.6	693.1	808.2	879.4	899.9
37.5°	568.4	660.2	775.3	839.7	858.8
40°	542.4	630.1	739.7	797.2	812.3
42.5°	512.3	597.2	702.7	752.0	764.3
45°	483.5	565.7	667.1	706.8	716.4
47.5°	453.4	532.8	628.7	661.6	669.8
50°	419.1	501.3	594.5	621.9	623.2
52.5°	386.3	471.2	557.5	579.4	584.9
55°	352.0	441.1	524.6	541.1	545.2
57.5°	317.8	412.3	490.4	504.1	510.9
60°	283.5	382.2	456.1	468.5	475.3
62.5°	252.0	353.4	424.6	432.8	438.3
65°	221.9	324.6	393.1	398.6	404.1
67.5°	193.1	298.6	363.0	365.7	372.6
70°	167.1	272.6	330.1	332.9	338.3
72.5°	141.1	245.2	300.0	298.6	304.1
75°	119.2	219.2	267.1	265.7	265.7
77.5°	98.6	191.8	232.9	224.6	220.5
80°	76.7	163.0	194.5	178.1	174.0
82.5°	60.3	130.1	150.7	134.2	130.1
85°	42.5	94.5	106.8	91.8	86.3
87.5°	21.9	50.7	54.8	46.6	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)