

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: P183958

Luminaire Tested: **14SR-LD2-25-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183958
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-LD2-25-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2502.4 lumens
Efficiency: N/A
Efficacy: 119.7 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

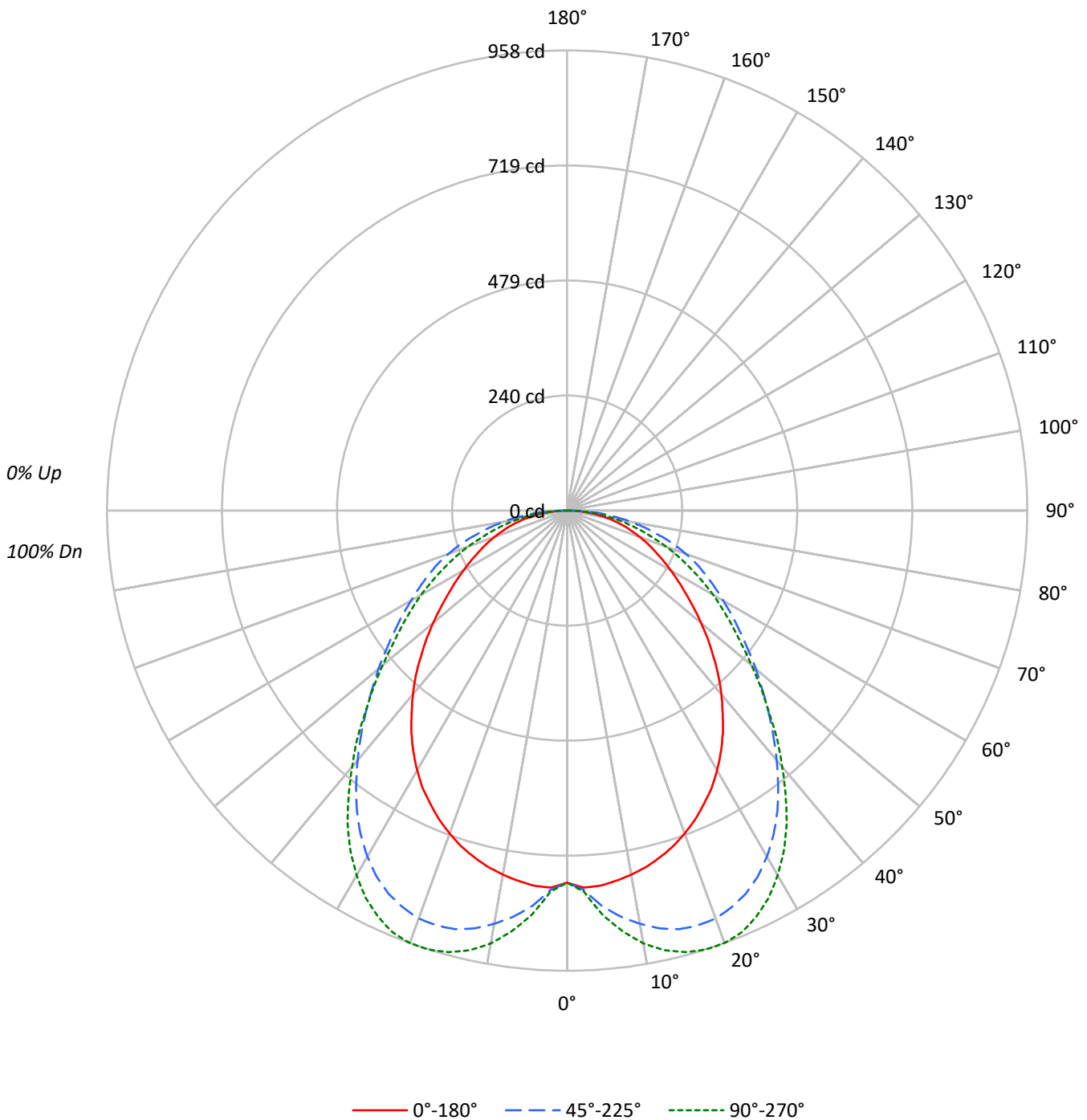
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183958

CATALOG NUMBER: 14SR-LD2-25-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183958

CATALOG NUMBER: 14SR-LD2-25-S-UNV-L835-CD1-U

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°	2084	2084	2084
5°	2118	2230	2281
10°	2103	2387	2500
15°	2082	2513	2651
20°	2048	2588	2744
25°	2001	2612	2769
30°	1940	2585	2724
35°	1857	2507	2618
40°	1756	2384	2446
45°	1641	2254	2261
50°	1524	2146	2099
55°	1416	2060	1970
60°	1341	2019	1891
65°	1291	2033	1799
70°	1269	2061	1721
75°	1261	2059	1644
80°	1238	2078	1609
85°	1186	2167	1627



TEST NUMBER: P183958

CATALOG NUMBER: 14SR-LD2-25-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.2
10°-20°	248.0	9.9
20°-30°	389.0	15.5
30°-40°	453.6	18.1
40°-50°	431.6	17.2
50°-60°	364.4	14.6
60°-70°	283.9	11.3
70°-80°	185.1	7.4
80°-90°	67.4	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°	716.3	28.6
0°-40°	1169.9	46.8
0°-60°	1966.0	78.6
0°-90°	2502.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2502.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	784	787	826	845	845	74
15°	747	821	902	942	952	211
25°	674	784	880	921	932	310
35°	565	677	763	790	797	353
45°	431	528	592	599	594	333
55°	302	396	439	426	420	272
65°	203	291	319	294	283	202
75°	121	195	198	166	158	127
85°	38	83	70	54	53	43
90°	0	0	0	0	0	



TEST NUMBER: P183958

CATALOG NUMBER: 14SR-LD2-25-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.4	774.4	774.4	774.4	774.4
2.5°	785.6	776.0	790.4	799.9	793.6
5°	784.1	787.2	825.6	844.6	844.6
7.5°	777.6	799.9	852.6	878.2	883.0
10°	769.7	811.1	873.5	907.0	915.0
12.5°	760.0	819.1	891.0	927.7	937.4
15°	747.3	820.8	902.2	942.1	951.7
17.5°	732.9	817.6	905.3	948.5	958.1
20°	715.3	811.1	903.8	946.9	958.1
22.5°	696.2	799.9	894.2	937.4	950.1
25°	673.8	784.1	879.8	921.4	932.5
27.5°	651.4	761.7	859.1	897.3	908.5
30°	624.4	737.7	831.9	868.6	876.6
32.5°	595.6	709.0	799.9	833.5	839.9
35°	565.2	677.0	763.2	790.4	796.8
37.5°	531.7	640.3	721.7	745.7	747.3
40°	499.8	603.6	678.6	697.8	696.2
42.5°	466.3	566.9	635.6	648.3	648.3
45°	431.1	528.5	592.4	598.7	594.0
47.5°	397.6	493.4	550.9	552.5	547.7
50°	364.0	458.3	512.6	507.8	501.4
52.5°	332.1	424.7	474.3	464.6	458.3
55°	301.8	396.0	439.1	426.4	419.9
57.5°	274.6	367.3	407.2	391.2	384.8
60°	249.1	340.1	375.2	357.7	351.3
62.5°	225.2	314.6	346.5	325.8	316.1
65°	202.8	290.6	319.3	293.8	282.6
67.5°	182.0	266.6	292.3	260.2	250.7
70°	161.3	242.7	261.9	228.4	218.7
72.5°	140.5	218.7	233.1	196.4	186.8
75°	121.3	194.8	198.0	166.0	158.1
77.5°	100.6	174.0	167.7	137.3	129.3
80°	79.9	147.0	134.1	108.6	103.8
82.5°	59.1	114.9	102.2	81.4	78.2
85°	38.4	83.1	70.2	54.2	52.7
87.5°	19.2	44.7	35.2	27.2	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)