

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: P183948

Luminaire Tested: **14SR-LD2-20-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183948  
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-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

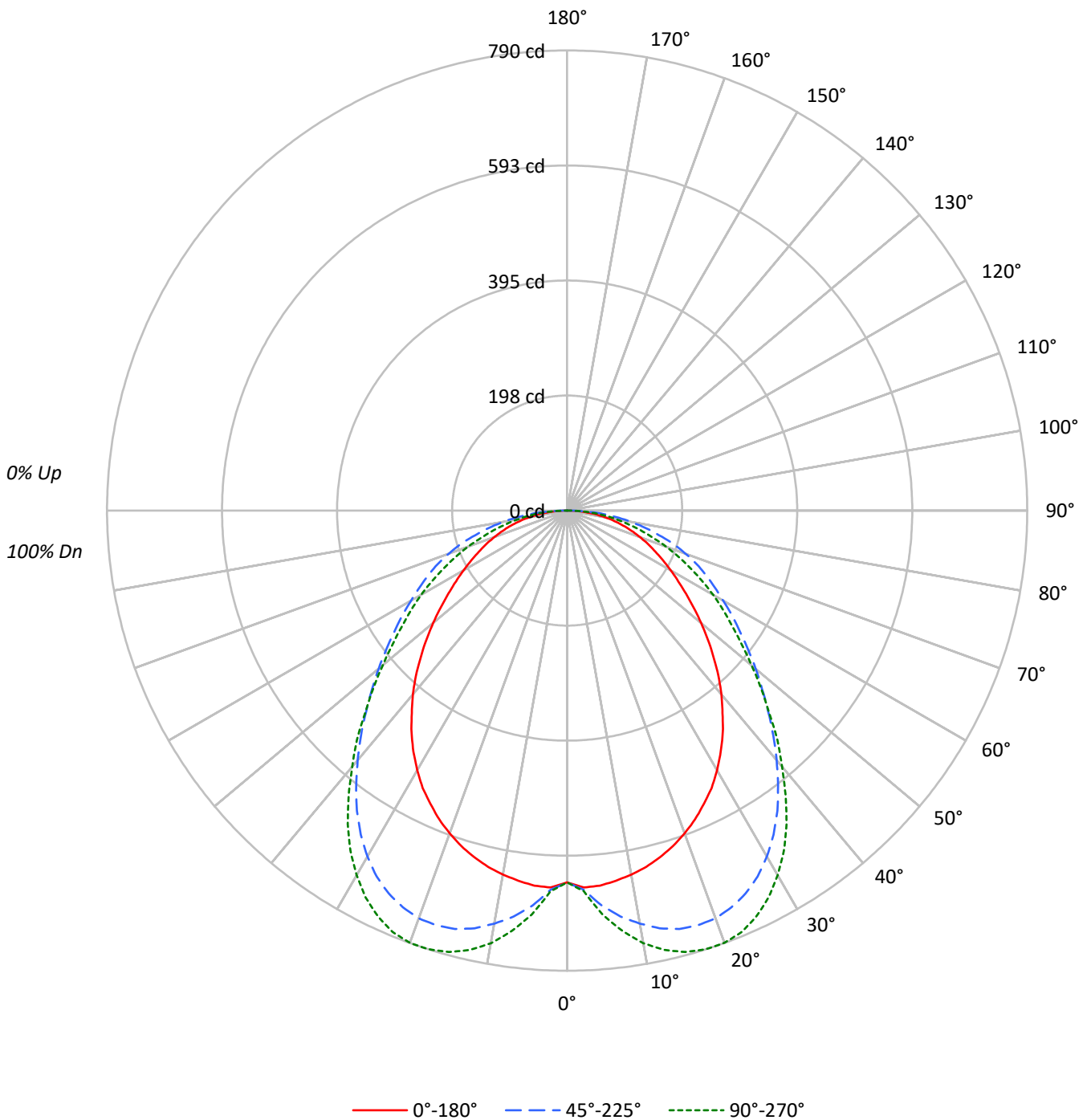
Lumens per Lamp: N/A  
Luminaire Lumens: 2062.7 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P183948

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183948

CATALOG NUMBER: 14SR-LD2-20-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°	1718	1718	1718
5°	1746	1838	1881
10°	1734	1967	2061
15°	1716	2072	2186
20°	1689	2133	2261
25°	1649	2153	2282
30°	1599	2131	2245
35°	1531	2067	2158
40°	1447	1965	2016
45°	1352	1858	1864
50°	1256	1769	1730
55°	1167	1698	1624
60°	1105	1665	1559
65°	1065	1676	1484
70°	1046	1699	1419
75°	1040	1697	1355
80°	1021	1714	1325
85°	976	1788	1340



TEST NUMBER: P183948

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	3.2
10°-20°	204.4	9.9
20°-30°	320.7	15.5
30°-40°	373.9	18.1
40°-50°	355.8	17.2
50°-60°	300.4	14.6
60°-70°	234.0	11.3
70°-80°	152.6	7.4
80°-90°	55.6	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°	590.4	28.6
0°-40°	964.4	46.8
0°-60°	1620.5	78.6
0°-90°	2062.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	646	649	680	696	696	61
15°	616	677	744	776	784	174
25°	555	646	725	760	769	256
35°	466	558	629	652	657	291
45°	355	436	488	494	490	274
55°	249	326	362	352	346	224
65°	167	240	263	242	233	166
75°	100	161	163	137	130	105
85°	32	68	58	45	43	35
90°	0	0	0	0	0	



TEST NUMBER: P183948

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	638.3	638.3	638.3	638.3	638.3
2.5°	647.6	639.7	651.5	659.4	654.1
5°	646.3	648.9	680.5	696.2	696.2
7.5°	641.0	659.4	702.8	723.9	727.9
10°	634.5	668.6	720.0	747.6	754.2
12.5°	626.5	675.2	734.5	764.7	772.7
15°	616.0	676.6	743.7	776.5	784.5
17.5°	604.1	673.9	746.3	781.9	789.7
20°	589.7	668.6	745.0	780.5	789.7
22.5°	573.8	659.4	737.1	772.7	783.1
25°	555.4	646.3	725.2	759.5	768.7
27.5°	537.0	627.9	708.2	739.7	748.9
30°	514.7	608.1	685.8	716.0	722.6
32.5°	490.9	584.4	659.4	687.0	692.4
35°	465.9	558.0	629.1	651.5	656.8
37.5°	438.3	527.8	594.9	614.7	616.0
40°	412.0	497.5	559.4	575.2	573.8
42.5°	384.3	467.3	523.9	534.4	534.4
45°	355.3	435.6	488.3	493.5	489.7
47.5°	327.7	406.7	454.1	455.4	451.5
50°	300.1	377.7	422.6	418.6	413.3
52.5°	273.8	350.1	390.9	383.0	377.7
55°	248.8	326.4	361.9	351.5	346.1
57.5°	226.4	302.8	335.7	322.5	317.2
60°	205.3	280.4	309.3	294.8	289.6
62.5°	185.6	259.3	285.6	268.5	260.6
65°	167.2	239.5	263.2	242.2	233.0
67.5°	150.0	219.8	240.9	214.5	206.7
70°	133.0	200.1	215.9	188.2	180.3
72.5°	115.8	180.3	192.1	161.9	154.0
75°	100.0	160.6	163.2	136.8	130.3
77.5°	82.9	143.4	138.2	113.2	106.6
80°	65.9	121.1	110.6	89.5	85.5
82.5°	48.7	94.8	84.3	67.1	64.5
85°	31.6	68.5	57.9	44.7	43.4
87.5°	15.8	36.9	29.0	22.4	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)