

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: P183970

Luminaire Tested: **14SR-LD2-32-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183970
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-LD2-32-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3604.3 lumens
Efficiency: N/A
Efficacy: 137.0 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

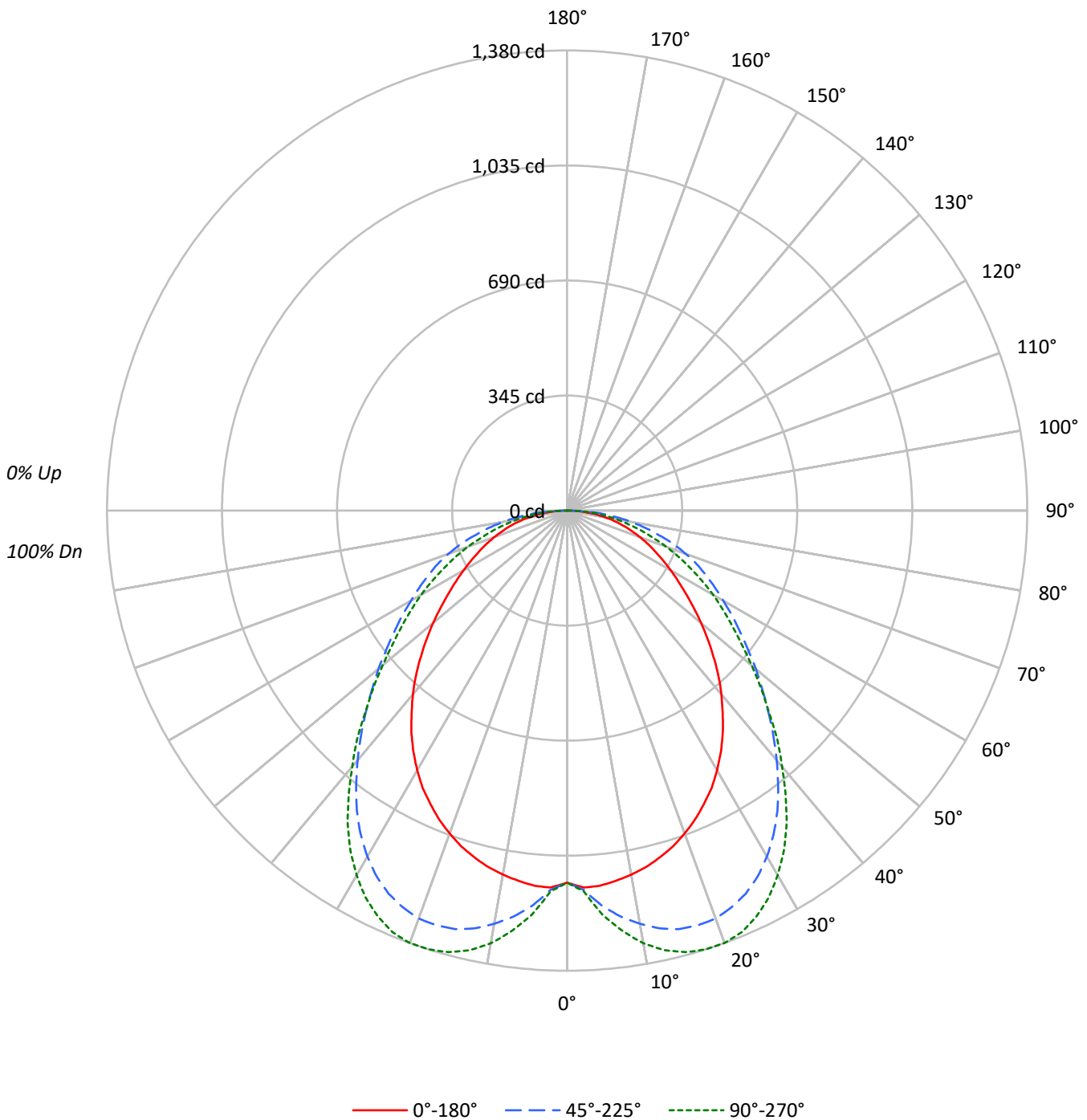
Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3002	3002	3002
5°	3051	3212	3286
10°	3029	3438	3601
15°	2999	3620	3819
20°	2950	3728	3952
25°	2882	3763	3988
30°	2794	3723	3924
35°	2674	3611	3770
40°	2529	3434	3522
45°	2363	3247	3256
50°	2195	3091	3024
55°	2039	2967	2837
60°	1931	2908	2723
65°	1861	2928	2592
70°	1828	2968	2478
75°	1816	2965	2368
80°	1784	2994	2317
85°	1704	3125	2343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.2
10°-20°	357.2	9.9
20°-30°	560.4	15.5
30°-40°	653.4	18.1
40°-50°	621.7	17.2
50°-60°	524.8	14.6
60°-70°	408.9	11.3
70°-80°	266.7	7.4
80°-90°	97.1	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°	1031.7	28.6
0°-40°	1685.1	46.8
0°-60°	2831.6	78.6
0°-90°	3604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1129	1134	1189	1217	1217	107
15°	1076	1182	1299	1357	1371	303
25°	970	1129	1267	1327	1343	447
35°	814	975	1099	1138	1148	508
45°	621	761	853	862	856	479
55°	435	570	632	614	605	391
65°	292	419	460	423	407	291
75°	175	281	285	239	228	184
85°	55	120	101	78	76	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1131.5	1117.8	1138.5	1152.2	1143.0
5°	1129.3	1133.9	1189.1	1216.6	1216.6
7.5°	1120.0	1152.2	1228.1	1264.9	1271.8
10°	1108.6	1168.3	1258.1	1306.4	1317.9
12.5°	1094.7	1179.8	1283.3	1336.2	1350.1
15°	1076.4	1182.2	1299.4	1356.9	1370.8
17.5°	1055.6	1177.6	1304.0	1366.2	1379.9
20°	1030.3	1168.3	1301.8	1363.8	1379.9
22.5°	1002.7	1152.2	1287.9	1350.1	1368.4
25°	970.5	1129.3	1267.2	1327.1	1343.2
27.5°	938.3	1097.1	1237.4	1292.5	1308.6
30°	899.3	1062.5	1198.3	1251.1	1262.7
32.5°	857.8	1021.2	1152.2	1200.5	1209.8
35°	814.1	975.1	1099.3	1138.5	1147.6
37.5°	765.8	922.2	1039.5	1074.1	1076.4
40°	719.9	869.3	977.5	1005.1	1002.7
42.5°	671.6	816.5	915.4	933.7	933.7
45°	620.9	761.2	853.2	862.4	855.6
47.5°	572.6	710.7	793.4	795.8	788.8
50°	524.3	660.1	738.4	731.4	722.3
52.5°	478.4	611.8	683.1	669.2	660.1
55°	434.7	570.4	632.4	614.1	604.8
57.5°	395.5	529.1	586.5	563.5	554.3
60°	358.8	489.9	540.4	515.2	506.0
62.5°	324.4	453.1	499.1	469.2	455.3
65°	292.2	418.6	459.9	423.1	407.0
67.5°	262.2	384.0	421.0	374.8	361.1
70°	232.3	349.6	377.2	328.9	315.0
72.5°	202.3	315.0	335.7	282.8	269.1
75°	174.7	280.6	285.2	239.1	227.8
77.5°	144.9	250.6	241.5	197.8	186.2
80°	115.1	211.7	193.2	156.4	149.5
82.5°	85.1	165.6	147.3	117.3	112.7
85°	55.2	119.6	101.2	78.1	75.9
87.5°	27.6	64.4	50.7	39.1	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)