

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: P183919

Luminaire Tested: **14SR-LD2-30-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SR-LD2-30-C-UNV-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3105.9 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

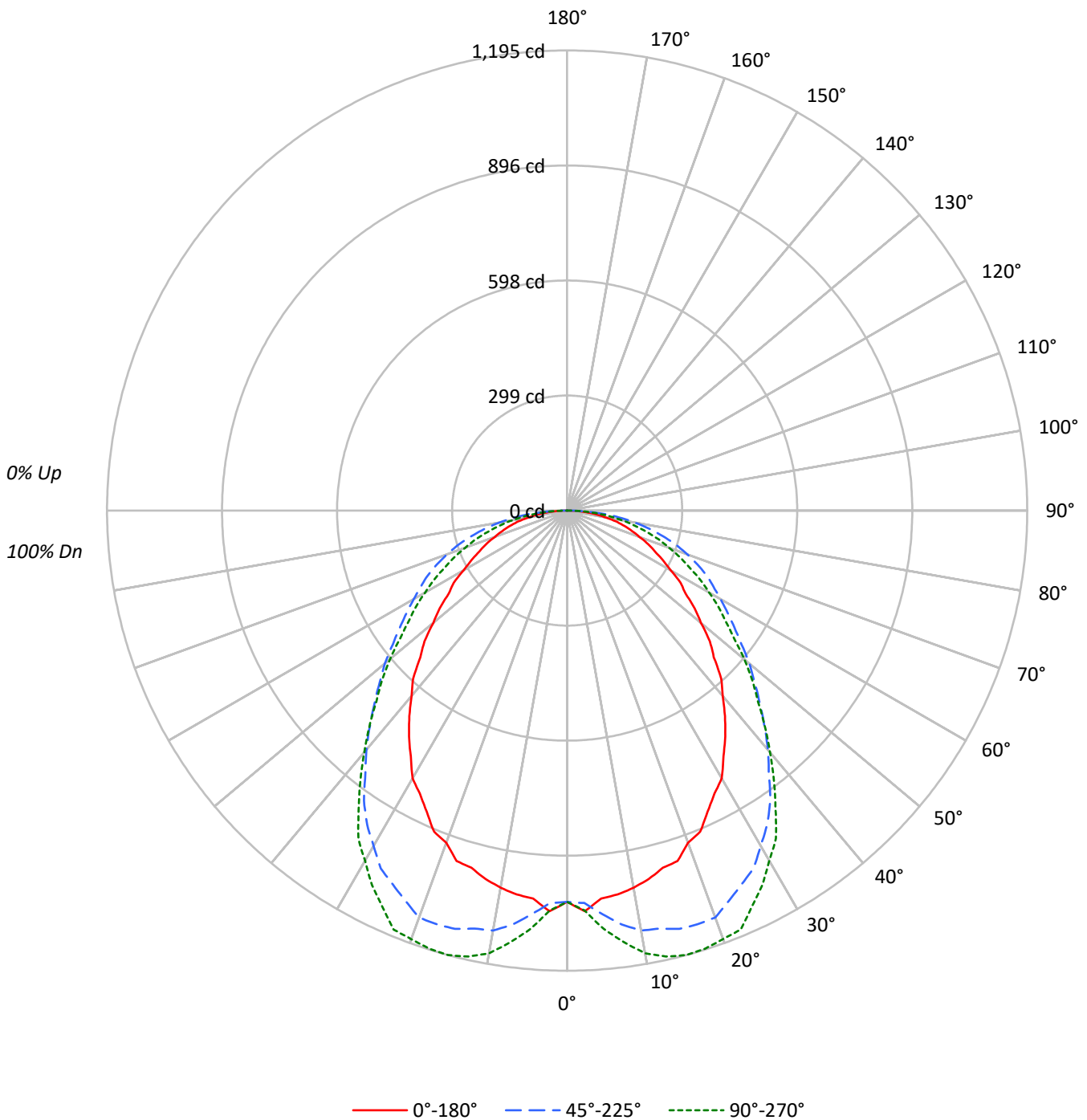
Input Watts (W): 24.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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°	2734	2734	2734
5°	2733	2842	2945
10°	2718	3026	3189
15°	2676	3133	3329
20°	2629	3220	3391
25°	2561	3181	3370
30°	2495	3123	3262
35°	2351	3022	3099
40°	2207	2850	2880
45°	2050	2691	2667
50°	1899	2586	2514
55°	1758	2488	2358
60°	1673	2476	2292
65°	1600	2550	2238
70°	1575	2614	2212
75°	1594	2679	2215
80°	1551	2772	2244
85°	1513	2828	2235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	3.3
10°-20°	314.4	10.1
20°-30°	484.0	15.6
30°-40°	554.1	17.8
40°-50°	523.8	16.9
50°-60°	444.8	14.3
60°-70°	353.7	11.4
70°-80°	239.8	7.7
80°-90°	88.9	2.9
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°	900.7	29.0
0°-40°	1454.8	46.8
0°-60°	2423.4	78.0
0°-90°	3105.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1012	1033	1052	1088	1090	96
15°	960	1063	1124	1190	1195	272
25°	862	1007	1071	1129	1135	398
35°	716	860	920	946	943	447
45°	539	667	707	716	701	419
55°	375	488	530	518	503	341
65°	251	360	400	366	351	251
75°	153	247	258	222	213	161
85°	49	104	92	74	72	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1041.4	1026.5	1020.1	1041.4	1039.3
5°	1011.6	1032.9	1052.1	1088.3	1090.4
7.5°	1005.2	1054.2	1084.0	1128.7	1130.9
10°	994.6	1058.5	1107.4	1160.7	1167.1
12.5°	979.7	1062.7	1111.7	1177.7	1186.2
15°	960.5	1062.7	1124.5	1190.5	1194.8
17.5°	954.1	1062.7	1126.6	1184.1	1192.6
20°	917.9	1052.1	1124.5	1175.6	1184.1
22.5°	903.0	1032.9	1096.8	1158.5	1177.7
25°	862.5	1007.3	1071.2	1128.7	1135.1
27.5°	828.4	979.7	1047.8	1096.8	1096.8
30°	802.9	945.6	1005.2	1052.1	1049.9
32.5°	756.0	898.7	966.9	1003.1	1009.5
35°	715.6	860.4	920.0	945.6	943.4
37.5°	673.0	811.4	860.4	890.2	881.7
40°	628.3	762.4	811.4	830.6	819.9
42.5°	592.1	711.3	758.2	770.9	760.3
45°	538.8	666.6	707.1	715.6	700.7
47.5°	502.6	617.6	660.2	660.2	651.7
50°	453.6	570.8	617.6	604.8	600.6
52.5°	417.4	530.3	570.8	560.1	547.3
55°	374.8	487.7	530.3	517.5	502.6
57.5°	349.3	453.6	494.1	479.2	466.4
60°	310.9	419.5	460.0	440.8	425.9
62.5°	281.1	389.7	428.1	404.6	389.7
65°	251.3	359.9	400.4	366.3	351.4
67.5°	227.9	332.2	366.3	330.1	317.3
70°	200.2	300.3	332.2	293.9	281.1
72.5°	176.8	274.7	296.0	257.7	249.2
75°	153.3	247.0	257.7	221.5	213.0
77.5°	129.9	219.4	219.4	187.4	178.9
80°	100.1	187.4	178.9	151.2	144.8
82.5°	76.7	149.1	136.3	112.9	108.6
85°	49.0	104.4	91.6	74.5	72.4
87.5°	23.4	55.4	44.7	36.2	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)