

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: P231421

Luminaire Tested: **SSLED-LD5-30-W-UNV-L850-CD2-U-FRR22**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P231421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-30-W-UNV-L850-CD2-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31352.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

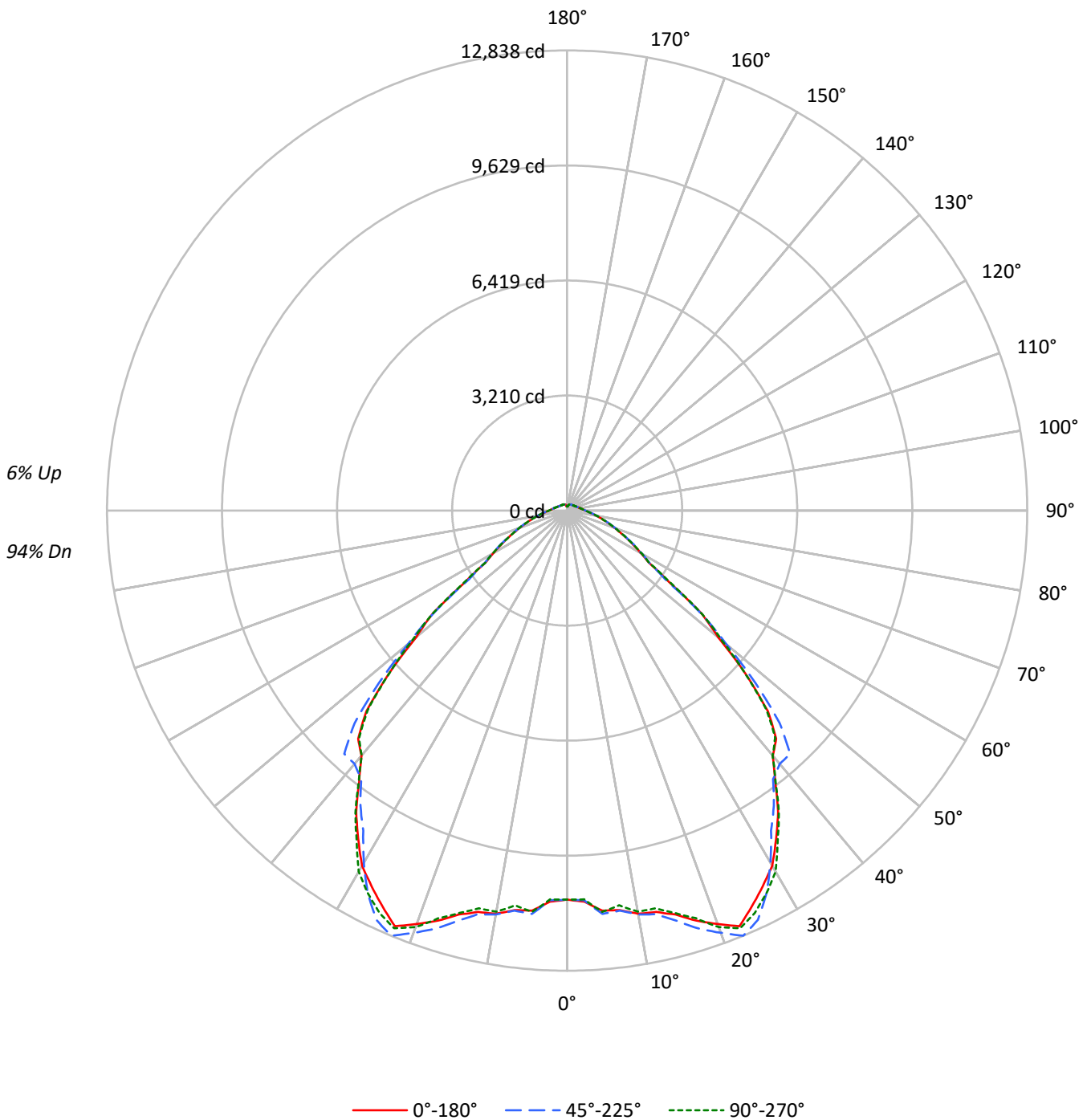
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44265	44265	44265
5°	43223	43586	43361
10°	42128	42200	41912
15°	41525	42184	41364
20°	42504	43420	42835
25°	41422	42807	42090
30°	38453	38126	39097
35°	34362	33672	34493
40°	30018	31033	29996
45°	26951	28558	26796
50°	19116	20129	19583
55°	12334	11888	12589
60°	8803	8923	8923
65°	7134	7216	7140
70°	5756	5849	5816
75°	4727	4798	4741
80°	3943	3990	3982
85°	3331	3390	3356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.8	3.4
10°-20°	3372.5	10.8
20°-30°	5705.1	18.2
30°-40°	6379.3	20.3
40°-50°	6029.2	19.2
50°-60°	3314.2	10.6
60°-70°	1854.9	5.9
70°-80°	1166.6	3.7
80°-90°	710.9	2.3
90°-100°	474.6	1.5
100°-110°	353.8	1.1
110°-120°	270.7	0.9
120°-130°	211.3	0.7
130°-140°	165.8	0.5
140°-150°	126.9	0.4
150°-160°	88.2	0.3
160°-170°	45.7	0.1
170°-180°	11.6	0.0
0°-30°	10148.4	32.4
0°-40°	16527.7	52.7
0°-60°	25871.2	82.5
0°-90°	29603.6	94.4
90°-120°	1099.1	3.5
90°-150°	1603.0	5.1
90°-180°	1748.0	5.6
0°-180°	31352.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10856	10856	10856	10856	10856	
5°	11202	11221	11296	11223	11237	###
15°	11667	11776	11852	11723	11622	3343
25°	12188	12624	12596	12800	12385	5587
35°	10260	10043	10054	10075	10299	6380
45°	7920	7851	8392	7782	7874	5873
55°	3456	3435	3331	3492	3527	3298
65°	1841	1847	1862	1852	1842	1835
75°	1078	1086	1094	1091	1081	1155
85°	636	638	648	640	641	560
90°	502	506	510	508	505	277
95°	427	430	433	432	430	339
105°	331	331	333	333	333	352
115°	269	271	271	273	273	269
125°	232	234	234	235	235	210
135°	213	213	213	213	214	165
145°	201	201	201	201	203	127
155°	190	192	190	190	192	88
165°	161	161	159	159	159	46
175°	117	117	115	115	117	12
180°	120	120	120	120	120	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10855.8	10855.8	10855.8	10855.8	10855.8
2.5°	10919.1	10911.0	10881.8	10854.2	10855.8
5°	11201.6	11221.0	11295.7	11222.7	11237.3
7.5°	11240.5	11286.0	11256.8	11195.1	11107.4
10°	11420.7	11436.9	11440.2	11407.7	11362.3
12.5°	11469.4	11618.7	11534.3	11505.1	11368.8
15°	11667.4	11776.2	11852.5	11722.6	11622.0
17.5°	11996.9	12182.0	12230.7	12175.5	11923.9
20°	12271.2	12529.3	12535.8	12560.2	12367.0
22.5°	12552.1	12795.5	12837.7	12883.2	12612.1
25°	12188.5	12623.5	12595.9	12800.4	12384.9
27.5°	11815.1	12128.4	12045.6	12277.7	12037.5
30°	11441.8	11511.6	11344.4	11581.4	11633.3
32.5°	10849.3	10636.7	10589.6	10729.2	10928.9
35°	10260.1	10042.6	10054.0	10075.1	10299.1
37.5°	9531.3	9753.7	9438.8	9813.7	9552.4
40°	8925.9	9268.4	9227.8	9281.3	8919.4
42.5°	8630.5	8614.2	9205.1	8625.6	8589.9
45°	7919.5	7851.3	8391.8	7781.5	7874.0
47.5°	6762.2	7198.8	7132.3	7202.1	6755.7
50°	5507.5	5934.3	5799.6	6039.9	5642.2
52.5°	4739.7	4530.3	4682.9	4595.2	4759.2
55°	3455.8	3434.6	3330.8	3491.5	3527.2
57.5°	2701.0	2715.6	2726.9	2717.2	2710.7
60°	2378.0	2412.0	2410.4	2408.8	2410.4
62.5°	2089.0	2108.5	2129.6	2115.0	2116.6
65°	1840.7	1847.2	1861.8	1852.0	1842.3
67.5°	1600.5	1619.9	1628.1	1629.7	1621.6
70°	1404.1	1418.7	1426.8	1423.5	1418.7
72.5°	1236.9	1245.0	1259.6	1254.7	1245.0
75°	1077.8	1085.9	1094.0	1090.8	1081.0
77.5°	944.7	951.2	957.7	959.3	952.8
80°	829.4	835.9	839.2	834.3	837.6
82.5°	725.6	732.1	735.3	733.7	732.1
85°	636.3	637.9	647.6	639.5	641.2
87.5°	560.0	561.6	564.9	564.9	561.6
90°	501.6	506.4	509.7	508.1	504.8
92.5°	461.0	465.9	465.9	465.9	464.2
95°	426.9	430.1	433.4	431.8	430.1
97.5°	399.3	400.9	404.2	402.5	400.9
100°	373.3	375.0	378.2	376.6	375.0
102.5°	349.0	352.2	353.9	353.9	352.2
105°	331.1	331.1	332.8	332.8	332.8
107.5°	313.3	313.3	314.9	314.9	314.9
110°	298.7	298.7	298.7	298.7	300.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.4	284.1	284.1	284.1	285.7
115°	269.4	271.1	271.1	272.7	272.7
117.5°	258.1	258.1	259.7	259.7	261.3
120°	248.3	250.0	250.0	251.6	251.6
122.5°	240.2	240.2	241.9	241.9	243.5
125°	232.1	233.7	233.7	235.4	235.4
127.5°	225.6	227.2	228.9	228.9	228.9
130°	222.4	224.0	224.0	224.0	225.6
132.5°	217.5	217.5	217.5	219.1	220.8
135°	212.6	212.6	212.6	212.6	214.3
137.5°	207.8	209.4	209.4	209.4	209.4
140°	204.5	206.1	206.1	206.1	206.1
142.5°	202.9	204.5	204.5	204.5	204.5
145°	201.3	201.3	201.3	201.3	202.9
147.5°	199.7	199.7	199.7	199.7	199.7
150°	198.0	198.0	196.4	196.4	198.0
152.5°	194.8	194.8	193.2	194.8	194.8
155°	189.9	191.5	189.9	189.9	191.5
157.5°	186.7	186.7	186.7	186.7	186.7
160°	180.2	180.2	178.5	178.5	180.2
162.5°	170.4	170.4	170.4	170.4	170.4
165°	160.7	160.7	159.1	159.1	159.1
167.5°	149.3	149.3	149.3	149.3	149.3
170°	134.7	136.3	134.7	134.7	134.7
172.5°	118.5	118.5	118.5	118.5	118.5
175°	116.9	116.9	115.2	115.2	116.9
177.5°	116.9	118.5	118.5	118.5	116.9
180°	120.1	120.1	120.1	120.1	120.1

(END OF REPORT)