

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: P231483

Luminaire Tested: **SSLED-LD5-30-W-UNV-L840-CD2-U-CLR22**

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: P231483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-5)
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-L840-CD2-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29673.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.49
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

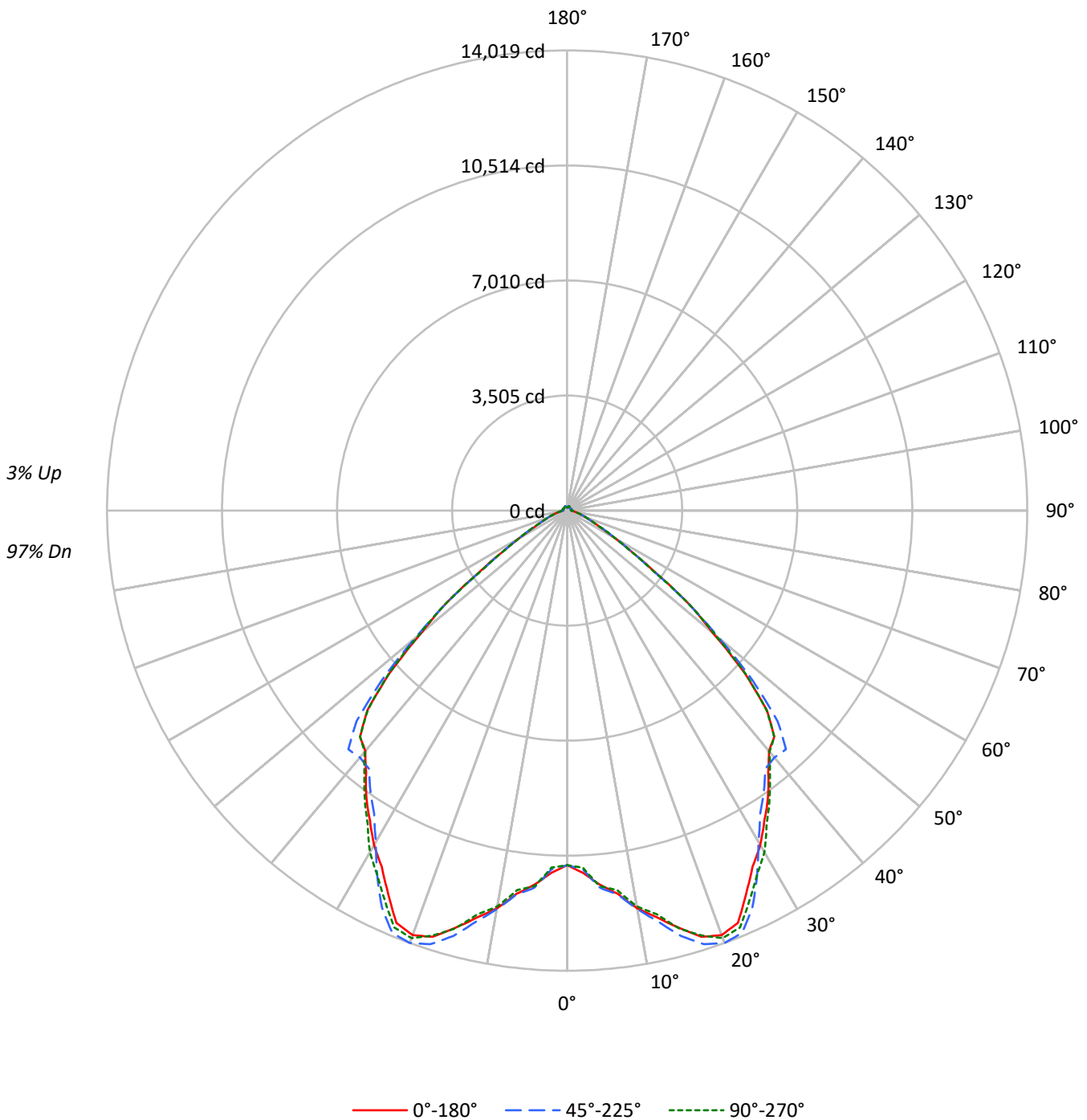
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97					97			
1	111	107	103	100	108	104	101	99	100	97	95	95	94	92	92	90	89	86					86			
2	103	96	91	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76					76			
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67					67			
4	88	78	70	65	86	76	70	64	74	68	63	71	66	62	69	65	61	59					59			
5	82	71	63	57	80	69	62	57	67	61	56	65	59	55	63	58	54	52					52			
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47					47			
7	71	59	51	45	69	58	50	45	56	49	45	54	49	44	53	48	44	42					42			
8	66	54	46	41	64	53	46	41	52	45	40	50	44	40	49	43	39	38					38			
9	62	50	42	37	60	49	42	37	48	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44056	44056	44056
5°	44132	44514	44326
10°	45375	45479	45154
15°	46837	47750	46888
20°	47669	48557	47996
25°	43815	45371	44617
30°	39543	39157	40394
35°	35738	35005	36007
40°	32156	33039	32267
45°	29284	30852	29230
50°	20108	20959	20419
55°	11607	11214	11327
60°	6267	6378	6279
65°	3604	3756	3659
70°	2464	2529	2529
75°	1746	1774	1753
80°	1302	1317	1294
85°	931	939	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1114.6	3.8
10°-20°	3778.9	12.7
20°-30°	6061.4	20.4
30°-40°	6665.2	22.5
40°-50°	6486.0	21.9
50°-60°	3109.8	10.5
60°-70°	1016.8	3.4
70°-80°	443.2	1.5
80°-90°	204.7	0.7
90°-100°	139.4	0.5
100°-110°	141.6	0.5
110°-120°	128.0	0.4
120°-130°	102.1	0.3
130°-140°	90.0	0.3
140°-150°	82.7	0.3
150°-160°	64.3	0.2
160°-170°	34.9	0.1
170°-180°	9.5	0.0
0°-30°	10954.9	36.9
0°-40°	17620.0	59.4
0°-60°	27215.8	91.7
0°-90°	28880.6	97.3
90°-120°	409.0	1.4
90°-150°	683.7	2.3
90°-180°	792.0	2.7
0°-180°	29673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10805	10805	10805	10805	10805	
5°	11437	11429	11536	11492	11487	###
15°	13160	13306	13416	13261	13174	3744
25°	12892	13342	13350	13495	13128	5926
35°	10671	10441	10452	10545	10751	6661
45°	8605	8496	9066	8506	8589	6340
55°	3252	3268	3142	3240	3174	3098
65°	930	947	969	964	944	996
75°	398	401	404	401	400	439
85°	178	178	179	179	176	166
90°	124	127	127	129	126	69
95°	118	116	118	121	123	102
105°	145	132	132	126	137	143
115°	124	132	131	131	127	127
125°	109	109	109	110	113	102
135°	116	115	112	115	118	91
145°	132	131	132	132	135	83
155°	140	140	140	140	138	64
165°	124	123	123	121	120	35
175°	98	98	96	96	98	10
180°	99	99	99	99	99	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10804.6	10804.6	10804.6	10804.6	10804.6
2.5°	11045.3	10988.7	10935.2	10895.8	10886.4
5°	11437.1	11429.2	11536.2	11492.2	11487.4
7.5°	11775.4	11795.8	11791.1	11734.5	11660.5
10°	12300.9	12305.6	12329.2	12297.7	12241.1
12.5°	12700.5	12881.5	12826.4	12769.8	12593.5
15°	13160.0	13306.3	13416.4	13260.7	13174.1
17.5°	13613.1	13768.9	13850.7	13811.4	13569.0
20°	13762.6	14004.9	14019.0	14056.8	13857.0
22.5°	13594.2	13871.1	13923.1	13995.4	13748.4
25°	12892.5	13342.5	13350.3	13495.1	13128.5
27.5°	12231.7	12610.8	12530.6	12799.7	12521.2
30°	11765.9	11832.0	11651.1	11990.9	12019.2
32.5°	11186.9	11023.3	10944.6	11105.1	11314.4
35°	10670.8	10441.1	10452.1	10545.0	10751.1
37.5°	10066.6	10227.1	9915.6	10356.2	10148.5
40°	9561.6	9871.5	9824.3	9947.1	9594.6
42.5°	9338.2	9308.3	9868.4	9327.1	9339.7
45°	8605.0	8496.4	9066.0	8505.8	8589.2
47.5°	7336.8	7690.8	7670.4	7796.2	7382.4
50°	5793.3	6155.2	6038.7	6306.2	5883.0
52.5°	4677.7	4522.0	4646.3	4570.7	4677.7
55°	3252.2	3268.0	3142.1	3239.6	3173.6
57.5°	2306.6	2358.5	2312.9	2309.8	2286.2
60°	1693.0	1699.3	1722.9	1718.2	1696.1
62.5°	1238.3	1250.9	1277.6	1276.0	1261.9
65°	929.9	947.2	969.2	964.5	944.0
67.5°	725.3	744.2	748.9	752.1	755.2
70°	601.0	607.3	616.8	616.8	616.8
72.5°	500.3	508.2	509.8	511.4	508.2
75°	398.1	401.2	404.4	401.2	399.6
77.5°	328.8	328.8	327.3	325.7	327.3
80°	273.8	275.3	276.9	273.8	272.2
82.5°	223.4	225.0	226.6	225.0	225.0
85°	177.8	177.8	179.4	179.4	176.2
87.5°	146.3	146.3	146.3	147.9	146.3
90°	124.3	127.4	127.4	129.0	125.9
92.5°	111.7	114.9	114.9	118.0	114.9
95°	118.0	116.4	118.0	121.2	122.7
97.5°	132.2	135.3	140.0	144.8	140.0
100°	138.5	149.5	152.6	152.6	143.2
102.5°	135.3	133.7	140.0	136.9	141.6
105°	144.8	132.2	132.2	125.9	136.9
107.5°	127.4	133.7	113.3	133.7	125.9
110°	129.0	125.9	124.3	129.0	130.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.2	121.2	130.6	121.2	132.2
115°	124.3	132.2	130.6	130.6	127.4
117.5°	129.0	132.2	135.3	136.9	129.0
120°	125.9	121.2	125.9	129.0	129.0
122.5°	113.3	111.7	113.3	116.4	122.7
125°	108.6	108.6	108.6	110.1	113.3
127.5°	110.1	110.1	108.6	110.1	111.7
130°	114.9	113.3	114.9	114.9	116.4
132.5°	116.4	114.9	111.7	114.9	119.6
135°	116.4	114.9	111.7	114.9	118.0
137.5°	118.0	116.4	116.4	116.4	119.6
140°	121.2	122.7	122.7	122.7	122.7
142.5°	127.4	127.4	127.4	127.4	130.6
145°	132.2	130.6	132.2	132.2	135.3
147.5°	136.9	135.3	136.9	136.9	138.5
150°	140.0	138.5	140.0	140.0	140.0
152.5°	141.6	140.0	141.6	141.6	141.6
155°	140.0	140.0	140.0	140.0	138.5
157.5°	136.9	136.9	136.9	136.9	135.3
160°	133.7	135.3	133.7	133.7	132.2
162.5°	129.0	129.0	129.0	127.4	127.4
165°	124.3	122.7	122.7	121.2	119.6
167.5°	118.0	116.4	114.9	114.9	113.3
170°	108.6	108.6	108.6	107.0	107.0
172.5°	99.1	97.6	97.6	97.6	96.0
175°	97.6	97.6	96.0	96.0	97.6
177.5°	97.6	97.6	99.1	97.6	97.6
180°	99.1	99.1	99.1	99.1	99.1

(END OF REPORT)