

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: P231445

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-CD2-U-FRR22-CLCDL22**

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: P231445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-36-W-UNV-L850-CD2-U-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
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: 34920.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.43 / 1.55
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Semi-Direct

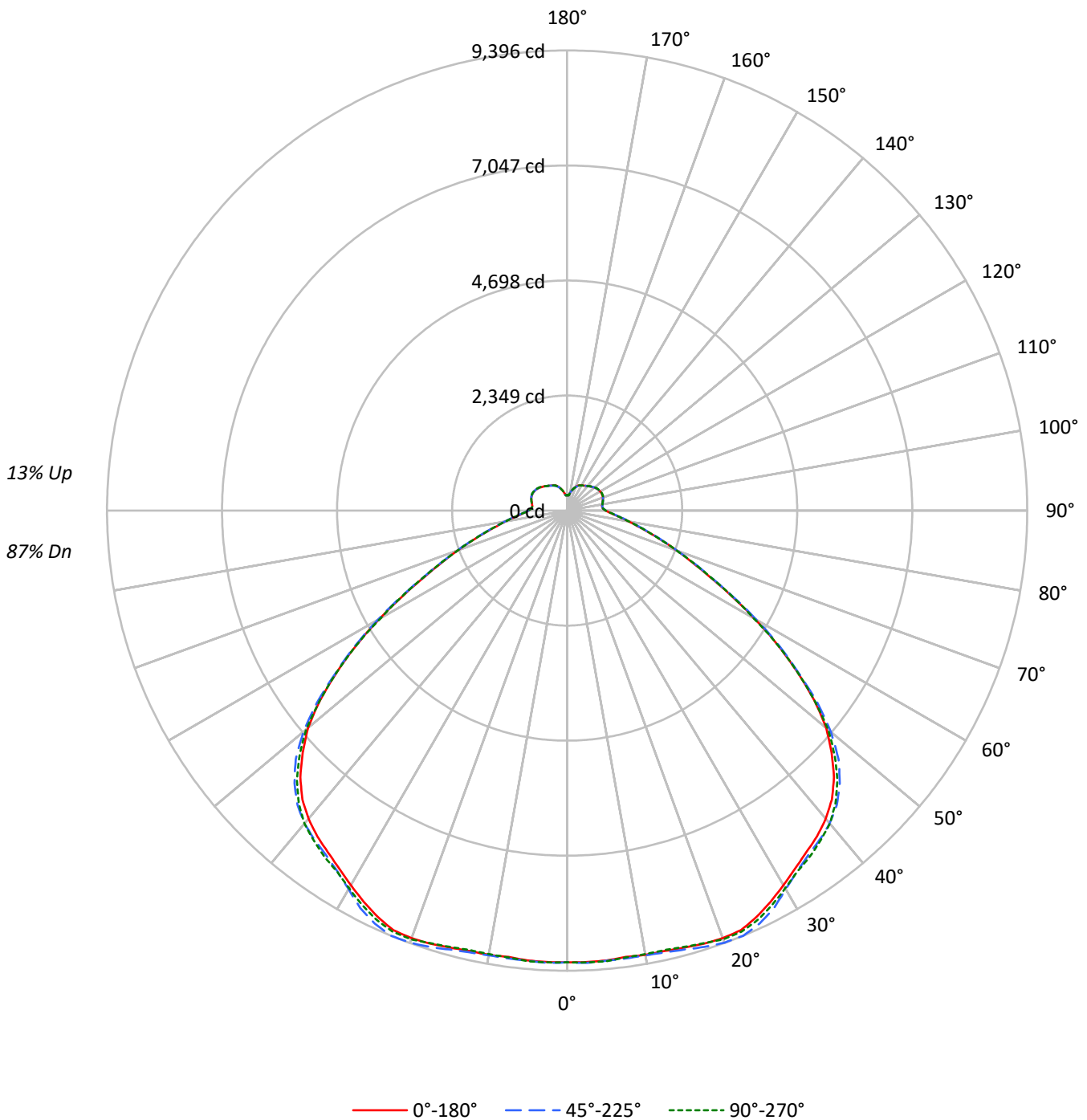
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				
1	106	101	96	92	101	97	93	90	91	87	85	85	82	80	79	77	75	72				
2	96	88	81	75	92	85	79	73	79	74	70	74	70	66	69	66	63	60				
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51				
4	80	68	59	53	77	66	58	52	62	55	50	58	52	48	54	50	46	43				
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37				
6	68	54	45	39	65	53	44	38	50	42	37	47	41	36	44	39	35	32				
7	62	49	40	34	60	48	40	34	45	38	33	42	36	32	40	35	31	28				
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25				
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	28	24	22				
10	51	37	30	24	49	37	29	24	35	28	23	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45515	45515	45515
5°	42358	42393	42428
10°	39883	39916	39818
15°	38084	38256	38029
20°	36828	37218	36933
25°	35200	35768	35447
30°	33219	33575	33504
35°	31579	31846	32021
40°	30267	30735	30748
45°	28424	29046	28787
50°	25702	26160	25899
55°	21682	21797	21703
60°	17155	17324	17059
65°	12941	13085	13002
70°	9942	9982	9902
75°	7594	7694	7619
80°	5999	6052	5981
85°	4859	4936	4907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.5	2.5
10°-20°	2625.8	7.5
20°-30°	4248.6	12.2
30°-40°	5400.4	15.5
40°-50°	5986.8	17.1
50°-60°	5128.8	14.7
60°-70°	3280.3	9.4
70°-80°	1870.6	5.4
80°-90°	1085.7	3.1
90°-100°	802.6	2.3
100°-110°	798.2	2.3
110°-120°	780.4	2.2
120°-130°	683.2	2.0
130°-140°	537.3	1.5
140°-150°	391.1	1.1
150°-160°	259.4	0.7
160°-170°	129.6	0.4
170°-180°	31.9	0.1
0°-30°	7753.8	22.2
0°-40°	13154.2	37.7
0°-60°	24269.8	69.5
0°-90°	30506.4	87.4
90°-120°	2381.2	6.8
90°-150°	3992.7	11.4
90°-180°	4414.0	12.6
0°-180°	34920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9225	9225	9225	9225	9225	
5°	9220	9218	9227	9218	9235	879
15°	9237	9254	9278	9246	9223	2621
25°	9153	9208	9301	9210	9218	4216
35°	8515	8598	8587	8636	8634	5346
45°	7704	7769	7873	7820	7803	5908
55°	5729	5759	5759	5748	5735	5102
65°	3227	3258	3263	3267	3242	3259
75°	1724	1731	1746	1735	1729	1861
85°	960	974	975	968	970	855
90°	786	788	792	788	786	434
95°	718	718	724	720	720	591
105°	752	754	756	756	756	795
115°	786	788	788	792	792	778
125°	760	761	763	765	767	681
135°	691	693	691	693	695	536
145°	621	621	619	619	621	391
155°	564	564	555	561	564	260
165°	453	453	451	449	451	130
175°	312	312	311	311	312	32
180°	314	314	314	314	314	



TEST NUMBER: P231445

CATALOG NUMBER: SSLED-LD5-36-W-UNV-L850-CD2-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9225.2	9225.2	9225.2	9225.2	9225.2
2.5°	9227.1	9242.3	9244.1	9232.8	9232.8
5°	9219.5	9217.6	9227.1	9217.6	9234.7
7.5°	9191.1	9193.0	9221.4	9204.4	9202.5
10°	9211.9	9193.0	9219.5	9196.8	9196.8
12.5°	9210.1	9206.3	9236.6	9210.1	9191.1
15°	9236.6	9253.6	9278.2	9246.0	9223.3
17.5°	9274.4	9295.3	9340.7	9280.1	9261.2
20°	9289.6	9299.1	9388.1	9299.1	9316.1
22.5°	9272.6	9285.8	9395.7	9285.8	9308.5
25°	9153.2	9208.2	9301.0	9210.1	9217.6
27.5°	9001.7	9094.5	9147.6	9104.0	9073.7
30°	8831.3	8954.4	8926.0	8977.1	8907.0
32.5°	8662.7	8782.0	8732.8	8808.5	8740.4
35°	8515.0	8598.3	8587.0	8636.2	8634.3
37.5°	8384.3	8433.6	8471.4	8492.3	8496.1
40°	8213.9	8282.0	8340.8	8327.5	8344.5
42.5°	8001.7	8075.6	8151.4	8111.6	8107.8
45°	7704.4	7768.8	7873.0	7819.9	7802.9
47.5°	7323.7	7444.9	7516.9	7460.1	7410.8
50°	6905.2	6965.8	7028.3	6996.1	6958.2
52.5°	6357.8	6361.6	6437.4	6393.8	6363.5
55°	5729.1	5759.4	5759.4	5748.0	5734.7
57.5°	5092.7	5115.4	5130.6	5113.5	5092.7
60°	4422.3	4446.9	4465.8	4458.2	4397.6
62.5°	3795.4	3820.0	3831.4	3808.6	3814.3
65°	3227.2	3257.5	3263.2	3267.0	3242.4
67.5°	2761.3	2784.0	2797.3	2785.9	2784.0
70°	2376.8	2382.5	2386.3	2393.9	2367.4
72.5°	2028.4	2030.3	2039.7	2041.6	2026.5
75°	1723.5	1731.0	1746.2	1734.8	1729.1
77.5°	1471.6	1482.9	1490.5	1494.3	1486.7
80°	1278.4	1280.3	1289.7	1282.2	1274.6
82.5°	1109.8	1109.8	1115.5	1115.5	1111.7
85°	960.2	973.5	975.4	967.8	969.7
87.5°	859.8	865.5	867.4	863.6	861.7
90°	786.0	787.9	791.7	787.9	786.0
92.5°	738.6	742.4	744.3	742.4	744.3
95°	717.8	717.8	723.5	719.7	719.7
97.5°	717.8	717.8	723.5	721.6	719.7
100°	727.3	729.2	731.0	731.0	731.0
102.5°	738.6	740.5	742.4	742.4	742.4
105°	751.9	753.8	755.7	755.7	755.7
107.5°	765.1	767.0	768.9	768.9	768.9
110°	778.4	776.5	780.3	780.3	782.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	784.1	786.0	786.0	787.9	789.8
115°	786.0	787.9	787.9	791.7	791.7
117.5°	786.0	786.0	787.9	789.8	791.7
120°	778.4	780.3	782.2	784.1	786.0
122.5°	772.7	772.7	774.6	776.5	778.4
125°	759.5	761.3	763.2	765.1	767.0
127.5°	746.2	746.2	748.1	750.0	751.9
130°	731.0	731.0	732.9	734.8	736.7
132.5°	710.2	712.1	712.1	714.0	715.9
135°	691.3	693.2	691.3	693.2	695.1
137.5°	672.3	672.3	670.4	672.3	674.2
140°	651.5	653.4	651.5	653.4	653.4
142.5°	634.5	638.2	636.4	636.4	638.2
145°	621.2	621.2	619.3	619.3	621.2
147.5°	606.0	607.9	606.0	606.0	606.0
150°	590.9	592.8	589.0	590.9	590.9
152.5°	579.5	581.4	572.0	579.5	579.5
155°	564.4	564.4	554.9	560.6	564.4
157.5°	543.6	541.7	536.0	541.7	539.8
160°	517.0	518.9	513.2	515.1	513.2
162.5°	482.9	486.7	484.8	484.8	482.9
165°	452.6	452.6	450.7	448.9	450.7
167.5°	418.6	418.6	416.7	418.6	416.7
170°	376.9	380.7	378.8	380.7	376.9
172.5°	335.2	333.3	333.3	333.3	333.3
175°	312.5	312.5	310.6	310.6	312.5
177.5°	310.6	310.6	312.5	308.7	308.7
180°	314.4	314.4	314.4	314.4	314.4

(END OF REPORT)