

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: P231465

Luminaire Tested: **SSLED-LD5-36-W-UNV-L840-CD2-U-FRR22-FRCDL22**

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: P231465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-4)
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-L840-CD2-U-FRR22-FRCDL22
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR DROP
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: 33375.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.16 / 1.37
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

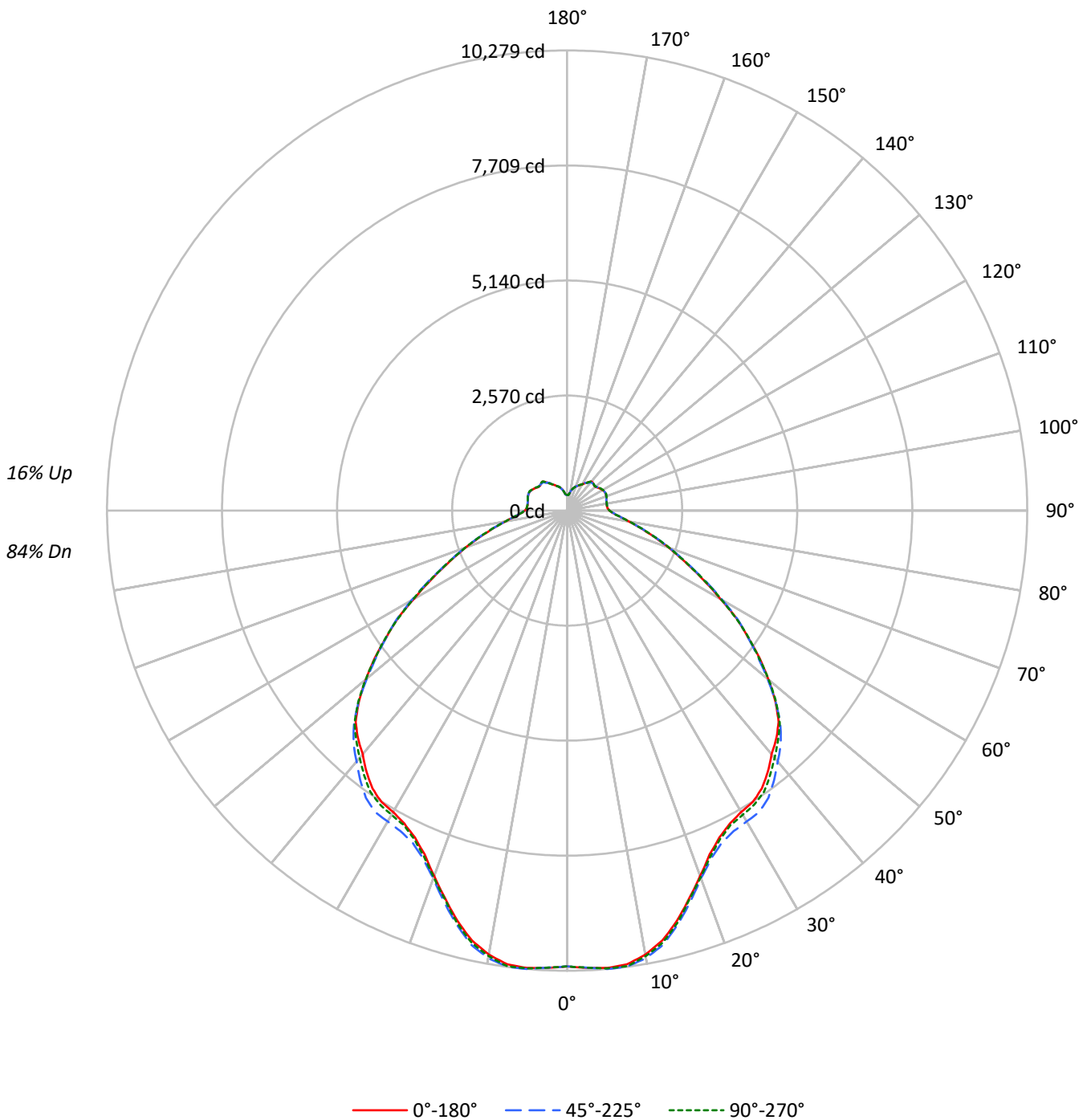
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84				
1	104	100	95	91	100	96	92	88	89	85	82	82	79	77	76	74	72	69				
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57				
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48				
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41				
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36				
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31				
7	62	49	40	34	60	47	39	34	44	37	32	42	36	31	39	34	30	28				
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	31	27	25				
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22				
10	51	38	30	25	49	37	29	24	34	28	23	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41523	41523	41523
5°	39571	39663	39613
10°	37144	37442	37279
15°	33761	34035	33911
20°	30090	30274	30179
25°	27365	27789	27495
30°	26129	26950	26376
35°	25387	26242	25682
40°	23893	24610	24245
45°	22735	22910	22860
50°	20377	20269	20409
55°	17593	17599	17671
60°	14659	14843	14741
65°	11996	12103	12039
70°	9867	9927	9934
75°	8036	8141	8141
80°	6643	6695	6704
85°	5746	5794	5737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.8	2.9
10°-20°	2669.0	8.0
20°-30°	3795.0	11.4
30°-40°	4794.2	14.4
40°-50°	5137.6	15.4
50°-60°	4406.2	13.2
60°-70°	3117.1	9.3
70°-80°	1978.6	5.9
80°-90°	1233.1	3.7
90°-100°	991.3	3.0
100°-110°	962.7	2.9
110°-120°	928.8	2.8
120°-130°	787.0	2.4
130°-140°	646.0	1.9
140°-150°	479.1	1.4
150°-160°	290.4	0.9
160°-170°	146.7	0.4
170°-180°	36.6	0.1
0°-30°	7439.7	22.3
0°-40°	12233.9	36.7
0°-60°	21777.8	65.3
0°-90°	28106.6	84.2
90°-120°	2882.7	8.6
90°-150°	4794.8	14.4
90°-180°	5268.0	15.8
0°-180°	33375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10183	10183	10183	10183	10183	
5°	10255	10268	10279	10273	10266	973
15°	9486	9499	9563	9539	9528	2656
25°	8052	8173	8177	8226	8090	3746
35°	7580	7608	7835	7668	7668	4719
45°	6681	6695	6732	6747	6717	5097
55°	4929	4927	4931	4905	4951	4414
65°	3095	3114	3123	3115	3106	3093
75°	1832	1852	1856	1856	1856	1965
85°	1098	1096	1107	1098	1096	962
90°	946	947	951	949	946	521
95°	896	898	901	901	900	733
105°	905	905	907	909	911	960
115°	938	940	942	946	947	925
125°	874	876	879	879	883	782
135°	834	834	834	837	841	646
145°	758	762	760	756	753	480
155°	620	622	622	619	624	289
165°	516	514	512	514	516	147
175°	358	356	354	356	356	37
180°	349	349	349	349	349	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10183.4	10183.4	10183.4	10183.4	10183.4
2.5°	10225.6	10225.6	10218.3	10223.8	10218.3
5°	10255.0	10267.9	10278.9	10273.4	10266.0
7.5°	10223.8	10236.6	10273.4	10264.2	10264.2
10°	10069.6	10093.4	10150.4	10133.8	10106.3
12.5°	9836.4	9876.8	9928.2	9897.0	9884.2
15°	9485.8	9498.6	9562.9	9539.0	9528.0
17.5°	9074.6	9074.6	9155.3	9151.7	9096.6
20°	8687.2	8714.7	8740.4	8766.1	8712.9
22.5°	8314.5	8410.0	8408.1	8455.9	8358.6
25°	8052.0	8173.2	8176.8	8226.4	8090.5
27.5°	7879.4	8015.3	8066.7	8063.0	7916.1
30°	7774.8	7853.7	8018.9	7918.0	7848.2
32.5°	7719.7	7723.4	7984.1	7785.8	7785.8
35°	7580.2	7607.7	7835.4	7668.3	7668.3
37.5°	7361.7	7468.2	7591.2	7525.1	7448.0
40°	7104.7	7280.9	7317.7	7306.6	7209.3
42.5°	6913.8	7012.9	7068.0	7055.1	6972.5
45°	6680.6	6695.3	6732.0	6746.7	6717.3
47.5°	6309.8	6304.3	6320.8	6330.0	6333.6
50°	5871.0	5828.8	5839.8	5838.0	5880.2
52.5°	5421.2	5368.0	5368.0	5358.8	5395.5
55°	4929.2	4927.4	4931.1	4905.4	4951.3
57.5°	4485.0	4499.6	4510.7	4479.4	4468.4
60°	3959.9	4009.5	4009.5	3996.6	3981.9
62.5°	3504.6	3541.3	3561.5	3532.2	3530.3
65°	3095.2	3113.6	3122.8	3115.4	3106.2
67.5°	2720.7	2742.7	2753.8	2737.2	2739.1
70°	2406.8	2414.1	2421.5	2438.0	2423.3
72.5°	2105.7	2111.2	2125.9	2122.2	2122.2
75°	1832.2	1852.4	1856.0	1856.0	1856.0
77.5°	1604.5	1615.5	1613.7	1610.0	1606.4
80°	1397.1	1408.1	1408.1	1408.1	1409.9
82.5°	1235.5	1233.7	1237.4	1241.0	1241.0
85°	1097.8	1096.0	1107.0	1097.8	1096.0
87.5°	1002.4	1007.9	1011.5	1009.7	1006.0
90°	945.5	947.3	951.0	949.1	945.5
92.5°	910.6	914.2	917.9	917.9	916.1
95°	895.9	897.7	901.4	901.4	899.6
97.5°	892.2	894.1	897.7	897.7	895.9
100°	894.1	895.9	897.7	897.7	899.6
102.5°	895.9	897.7	899.6	901.4	901.4
105°	905.1	905.1	906.9	908.7	910.6
107.5°	916.1	917.9	919.8	921.6	921.6
110°	928.9	930.8	930.8	934.4	934.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	938.1	939.9	939.9	943.6	945.5
115°	938.1	939.9	941.8	945.5	947.3
117.5°	930.8	930.8	932.6	936.3	939.9
120°	914.2	914.2	917.9	919.8	923.4
122.5°	894.1	895.9	899.6	901.4	903.2
125°	873.9	875.7	879.4	879.4	883.0
127.5°	846.3	851.8	855.5	855.5	857.3
130°	824.3	829.8	833.5	835.3	833.5
132.5°	818.8	824.3	829.8	826.1	822.5
135°	833.5	833.5	833.5	837.1	840.8
137.5°	848.2	844.5	831.6	846.3	851.8
140°	848.2	835.3	826.1	833.5	848.2
142.5°	805.9	802.3	783.9	798.6	804.1
145°	758.2	761.9	760.0	756.4	752.7
147.5°	717.8	725.2	730.7	716.0	716.0
150°	673.8	690.3	690.3	684.8	679.3
152.5°	649.9	653.6	653.6	649.9	651.7
155°	620.5	622.3	622.3	618.7	624.2
157.5°	591.1	594.8	594.8	594.8	593.0
160°	570.9	572.8	570.9	570.9	569.1
162.5°	545.2	543.4	543.4	543.4	545.2
165°	515.9	514.0	512.2	514.0	515.9
167.5°	481.0	481.0	479.2	479.2	479.2
170°	438.8	440.6	438.8	438.8	436.9
172.5°	383.7	381.9	383.7	383.7	385.5
175°	358.0	356.2	354.3	356.2	356.2
177.5°	348.8	350.6	350.6	348.8	347.0
180°	348.8	348.8	348.8	348.8	348.8

(END OF REPORT)