

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: P231423

Luminaire Tested: **SSLED-LD5-36-W-UNV-L840-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: P231423
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-LD5-36-W-UNV-L840-CD2-U-FRR22
Description: STEELER WHITE 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: 35459.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

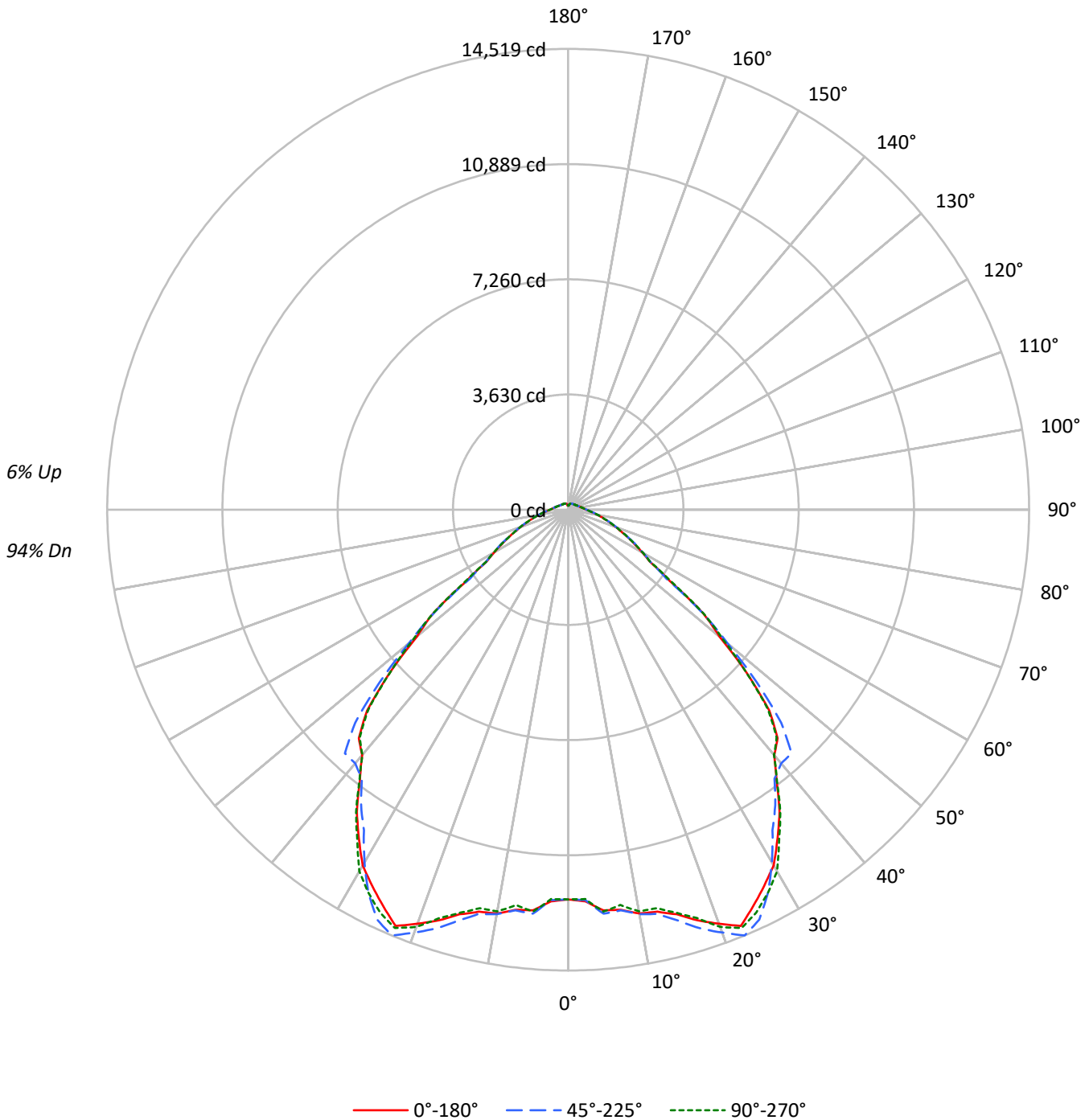
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	50064	50064	50064
5°	48885	49296	49041
10°	47647	47728	47403
15°	46965	47710	46782
20°	48071	49108	48447
25°	46848	48414	47603
30°	43490	43120	44219
35°	38864	38083	39011
40°	33950	35099	33926
45°	30481	32299	30306
50°	21619	22767	22148
55°	13949	13445	14238
60°	9956	10092	10092
65°	8069	8161	8076
70°	6510	6615	6578
75°	5347	5427	5363
80°	4460	4513	4504
85°	3767	3834	3795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1211.1	3.4
10°-20°	3814.2	10.8
20°-30°	6452.5	18.2
30°-40°	7215.0	20.3
40°-50°	6819.0	19.2
50°-60°	3748.4	10.6
60°-70°	2097.9	5.9
70°-80°	1319.5	3.7
80°-90°	804.0	2.3
90°-100°	536.8	1.5
100°-110°	400.1	1.1
110°-120°	306.1	0.9
120°-130°	238.9	0.7
130°-140°	187.5	0.5
140°-150°	143.5	0.4
150°-160°	99.7	0.3
160°-170°	51.7	0.1
170°-180°	13.1	0.0
0°-30°	11477.8	32.4
0°-40°	18692.8	52.7
0°-60°	29260.2	82.5
0°-90°	33481.6	94.4
90°-120°	1243.0	3.5
90°-150°	1812.9	5.1
90°-180°	1977.0	5.6
0°-180°	35459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12278	12278	12278	12278	12278	
5°	12669	12691	12775	12693	12709	###
15°	13196	13319	13405	13258	13144	3781
25°	13785	14277	14246	14477	14007	6319
35°	11604	11358	11371	11395	11648	7216
45°	8957	8880	9491	8801	8906	6643
55°	3908	3885	3767	3949	3989	3730
65°	2082	2089	2106	2095	2084	2076
75°	1219	1228	1237	1234	1223	1306
85°	720	722	732	723	725	633
90°	567	573	576	575	571	314
95°	483	486	490	488	486	383
105°	374	374	376	376	376	398
115°	305	307	307	308	308	304
125°	262	264	264	266	266	237
135°	240	240	240	240	242	187
145°	228	228	228	228	230	143
155°	215	217	215	215	217	100
165°	182	182	180	180	180	52
175°	132	132	130	130	132	13
180°	136	136	136	136	136	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12277.9	12277.9	12277.9	12277.9	12277.9
2.5°	12349.5	12340.3	12307.3	12276.1	12277.9
5°	12668.9	12691.0	12775.4	12692.8	12709.3
7.5°	12713.0	12764.4	12731.4	12661.6	12562.5
10°	12916.8	12935.1	12938.8	12902.1	12850.7
12.5°	12971.8	13140.7	13045.3	13012.2	12858.0
15°	13195.8	13318.8	13405.1	13258.2	13144.4
17.5°	13568.5	13777.8	13832.8	13770.4	13485.9
20°	13878.7	14170.6	14178.0	14205.5	13987.0
22.5°	14196.3	14471.7	14519.4	14570.8	14264.3
25°	13785.1	14277.1	14245.9	14477.2	14007.2
27.5°	13362.9	13717.2	13623.6	13886.1	13614.4
30°	12940.6	13019.6	12830.5	13098.5	13157.3
32.5°	12270.6	12030.1	11976.8	12134.7	12360.5
35°	11604.2	11358.2	11371.0	11394.9	11648.2
37.5°	10779.9	11031.4	10675.2	11099.3	10803.7
40°	10095.1	10482.5	10436.6	10497.2	10087.8
42.5°	9761.0	9742.7	10410.9	9755.5	9715.1
45°	8956.9	8879.8	9491.1	8800.9	8905.5
47.5°	7648.0	8141.8	8066.6	8145.5	7640.6
50°	6228.9	6711.7	6559.4	6831.1	6381.3
52.5°	5360.6	5123.7	5296.3	5197.2	5382.6
55°	3908.4	3884.6	3767.1	3948.8	3989.2
57.5°	3054.8	3071.3	3084.2	3073.1	3065.8
60°	2689.5	2728.0	2726.2	2724.3	2726.2
62.5°	2362.7	2384.7	2408.6	2392.1	2393.9
65°	2081.8	2089.2	2105.7	2094.7	2083.6
67.5°	1810.1	1832.1	1841.3	1843.2	1834.0
70°	1588.0	1604.5	1613.7	1610.0	1604.5
72.5°	1398.9	1408.1	1424.6	1419.1	1408.1
75°	1219.0	1228.2	1237.3	1233.7	1222.7
77.5°	1068.4	1075.8	1083.1	1085.0	1077.6
80°	938.1	945.4	949.1	943.6	947.3
82.5°	820.6	828.0	831.6	829.8	828.0
85°	719.6	721.5	732.5	723.3	725.1
87.5°	633.4	635.2	638.9	638.9	635.2
90°	567.3	572.8	576.4	574.6	570.9
92.5°	521.4	526.9	526.9	526.9	525.0
95°	482.8	486.5	490.2	488.3	486.5
97.5°	451.6	453.4	457.1	455.3	453.4
100°	422.2	424.1	427.7	425.9	424.1
102.5°	394.7	398.4	400.2	400.2	398.4
105°	374.5	374.5	376.3	376.3	376.3
107.5°	354.3	354.3	356.1	356.1	356.1
110°	337.8	337.8	337.8	337.8	339.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	319.4	321.3	321.3	321.3	323.1
115°	304.7	306.6	306.6	308.4	308.4
117.5°	291.9	291.9	293.7	293.7	295.6
120°	280.9	282.7	282.7	284.6	284.6
122.5°	271.7	271.7	273.5	273.5	275.4
125°	262.5	264.4	264.4	266.2	266.2
127.5°	255.2	257.0	258.8	258.8	258.8
130°	251.5	253.3	253.3	253.3	255.2
132.5°	246.0	246.0	246.0	247.8	249.7
135°	240.5	240.5	240.5	240.5	242.3
137.5°	235.0	236.8	236.8	236.8	236.8
140°	231.3	233.1	233.1	233.1	233.1
142.5°	229.5	231.3	231.3	231.3	231.3
145°	227.6	227.6	227.6	227.6	229.5
147.5°	225.8	225.8	225.8	225.8	225.8
150°	224.0	224.0	222.1	222.1	224.0
152.5°	220.3	220.3	218.5	220.3	220.3
155°	214.8	216.6	214.8	214.8	216.6
157.5°	211.1	211.1	211.1	211.1	211.1
160°	203.8	203.8	201.9	201.9	203.8
162.5°	192.8	192.8	192.8	192.8	192.8
165°	181.7	181.7	179.9	179.9	179.9
167.5°	168.9	168.9	168.9	168.9	168.9
170°	152.4	154.2	152.4	152.4	152.4
172.5°	134.0	134.0	134.0	134.0	134.0
175°	132.2	132.2	130.3	130.3	132.2
177.5°	132.2	134.0	134.0	134.0	132.2
180°	135.9	135.9	135.9	135.9	135.9

(END OF REPORT)