

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: CORELITE

Report Number: P213039

Luminaire Tested: **DSI-WS-60L840-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-60L840-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 5.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5954.4 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

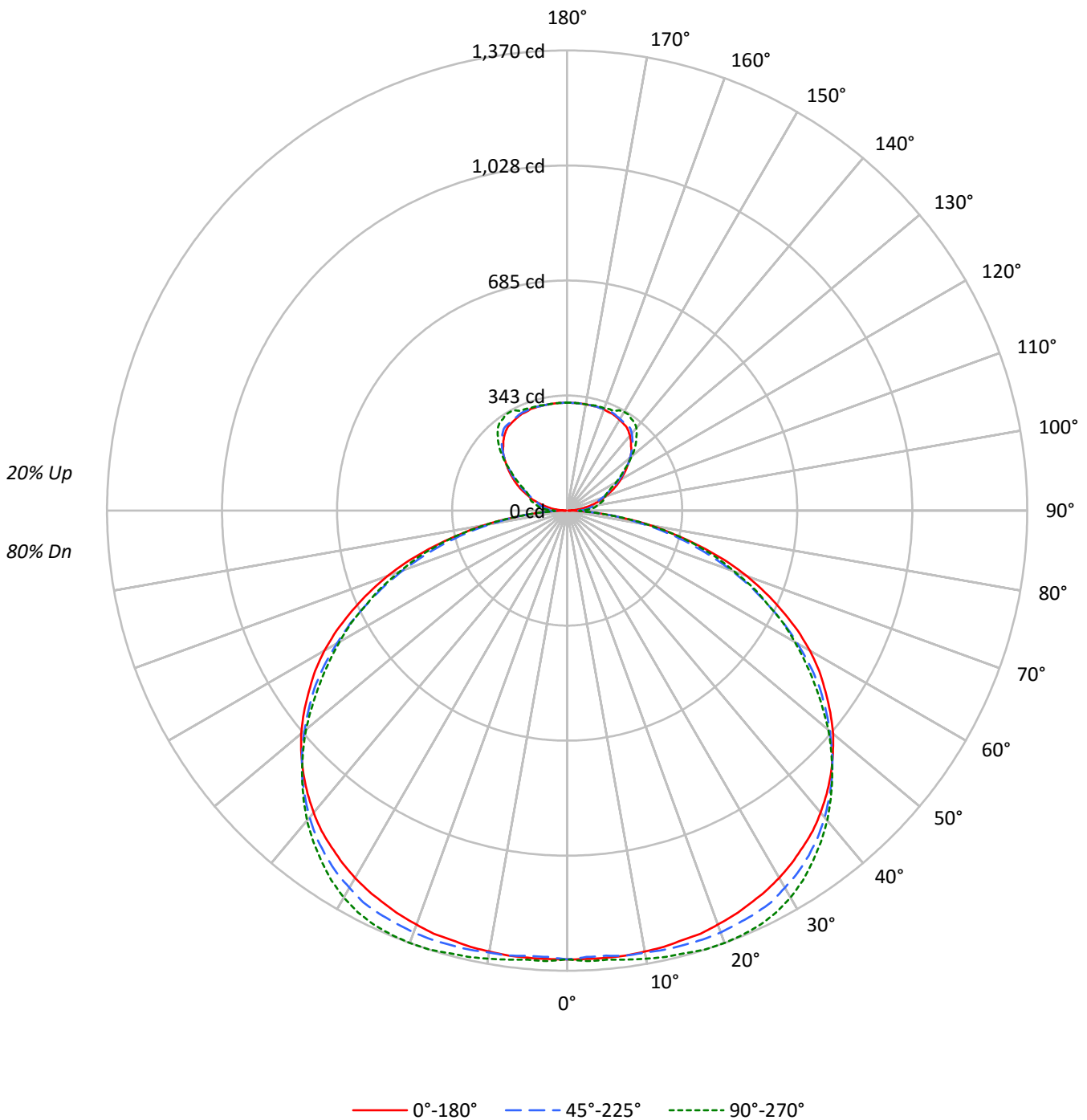
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	69	66
2	94	85	78	73	89	82	76	70	75	70	66	69	65	61	63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54	60	55	51	55	51	48	45
4	78	65	57	50	74	63	55	48	58	51	46	53	48	43	49	44	40	38
5	71	58	49	42	67	56	47	41	51	44	39	47	41	37	44	39	35	32
6	65	52	43	37	62	50	42	36	46	39	34	43	37	32	39	34	30	28
7	60	47	38	32	57	45	37	31	42	35	30	39	33	28	36	31	27	24
8	56	43	34	28	53	41	33	28	38	31	26	35	29	25	33	27	24	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	30	25	21	19
10	49	36	28	23	47	34	27	22	32	26	21	30	24	20	28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4503	4503	4503
5°	4520	4499	4541
10°	4562	4572	4635
15°	4619	4672	4758
20°	4704	4792	4912
25°	4798	4923	5059
30°	4914	5044	5176
35°	5032	5157	5245
40°	5165	5246	5300
45°	5289	5319	5319
50°	5418	5354	5322
55°	5515	5389	5281
60°	5626	5337	5275
65°	5632	5242	5242
70°	5604	5121	5212
75°	5335	4896	5175
80°	4865	4449	4807
85°	3785	3785	3545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.1
10°-20°	380.6	6.4
20°-30°	611.9	10.3
30°-40°	783.7	13.2
40°-50°	860.2	14.4
50°-60°	820.2	13.8
60°-70°	665.3	11.2
70°-80°	412.2	6.9
80°-90°	118.8	2.0
90°-100°	60.6	1.0
100°-110°	101.6	1.7
110°-120°	142.4	2.4
120°-130°	188.0	3.2
130°-140°	213.0	3.6
140°-150°	197.2	3.3
150°-160°	148.8	2.5
160°-170°	91.2	1.5
170°-180°	30.7	0.5
0°-30°	1120.4	18.8
0°-40°	1904.0	32.0
0°-60°	3584.4	60.2
0°-90°	4780.8	80.3
90°-120°	304.6	5.1
90°-150°	903.0	15.2
90°-180°	1174.0	19.7
0°-180°	5954.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1336	1336	1330	1342	1342	127
15°	1324	1330	1339	1358	1364	375
25°	1290	1303	1324	1352	1361	596
35°	1223	1235	1254	1269	1275	767
45°	1110	1116	1116	1119	1116	856
55°	939	933	917	905	899	840
65°	706	691	657	660	657	698
75°	410	391	376	394	398	432
85°	98	95	98	98	92	111
90°	3	21	31	37	37	9
95°	28	46	61	73	76	29
105°	89	89	92	107	110	94
115°	153	150	141	134	134	150
125°	214	211	208	208	205	192
135°	269	266	275	287	290	208
145°	306	303	312	327	333	191
155°	318	318	321	324	327	147
165°	321	321	321	324	324	91
175°	321	321	321	321	321	31
180°	321	321	321	321	321	



TEST NUMBER: P213039

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.3	1336.3	1336.3	1336.3	1336.3
2.5°	1336.3	1336.3	1330.2	1339.4	1342.4
5°	1336.3	1336.3	1330.2	1342.4	1342.4
7.5°	1336.3	1336.3	1336.3	1345.5	1348.5
10°	1333.2	1336.3	1336.3	1351.6	1354.7
12.5°	1330.2	1336.3	1339.4	1354.7	1360.8
15°	1324.1	1330.2	1339.4	1357.7	1363.8
17.5°	1321.0	1327.1	1339.4	1363.8	1369.9
20°	1311.8	1321.0	1336.3	1360.8	1369.9
22.5°	1302.7	1311.8	1330.2	1357.7	1366.9
25°	1290.4	1302.7	1324.1	1351.6	1360.8
27.5°	1278.2	1290.4	1314.9	1339.4	1348.5
30°	1262.9	1275.1	1296.5	1321.0	1330.2
32.5°	1244.6	1256.8	1278.2	1299.6	1305.7
35°	1223.2	1235.4	1253.7	1269.0	1275.1
37.5°	1201.8	1210.9	1226.2	1238.4	1241.5
40°	1174.2	1183.4	1192.6	1201.8	1204.8
42.5°	1143.7	1152.8	1155.9	1162.0	1162.0
45°	1110.0	1116.1	1116.1	1119.2	1116.1
47.5°	1073.3	1076.4	1070.3	1070.3	1067.2
50°	1033.6	1033.6	1021.3	1018.3	1015.2
52.5°	987.7	984.6	969.4	963.2	957.1
55°	938.8	932.7	917.4	905.1	899.0
57.5°	889.8	880.7	856.2	844.0	840.9
60°	834.8	822.6	792.0	782.8	782.8
62.5°	773.6	758.4	727.8	721.7	724.7
65°	706.4	691.1	657.4	660.5	657.4
67.5°	639.1	620.8	590.2	596.3	599.3
70°	568.8	550.4	519.8	529.0	529.0
72.5°	492.3	470.9	446.5	464.8	467.9
75°	409.8	391.4	376.1	394.5	397.5
77.5°	327.2	315.0	302.7	324.1	327.2
80°	250.7	235.5	229.3	247.7	247.7
82.5°	165.1	162.1	165.1	174.3	171.2
85°	97.9	94.8	97.9	97.9	91.7
87.5°	42.8	42.8	39.8	33.6	36.7
90°	3.1	21.4	30.6	36.7	36.7
92.5°	15.3	36.7	52.0	58.1	58.1
95°	27.5	45.9	61.2	73.4	76.4
97.5°	42.8	52.0	70.3	82.6	85.6
100°	58.1	58.1	79.5	88.7	91.7
102.5°	73.4	73.4	85.6	97.9	100.9
105°	88.7	88.7	91.7	107.0	110.1
107.5°	107.0	104.0	97.9	110.1	116.2
110°	119.3	119.3	113.1	116.2	119.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	134.5	125.4	122.3	125.4
115°	152.9	149.8	140.7	134.5	134.5
117.5°	168.2	165.1	159.0	152.9	149.8
120°	183.5	180.4	174.3	171.2	168.2
122.5°	198.8	198.8	192.6	189.6	186.5
125°	214.1	211.0	207.9	207.9	204.9
127.5°	229.3	226.3	229.3	229.3	229.3
130°	244.6	238.5	244.6	247.7	250.7
132.5°	259.9	253.8	259.9	269.1	272.2
135°	269.1	266.0	275.2	287.4	290.5
137.5°	281.3	278.3	287.4	302.7	305.8
140°	290.5	290.5	299.7	315.0	321.1
142.5°	299.7	296.6	308.8	321.1	330.3
145°	305.8	302.7	311.9	327.2	333.3
147.5°	308.8	308.8	311.9	333.3	339.4
150°	311.9	311.9	315.0	333.3	339.4
152.5°	315.0	315.0	318.0	327.2	336.4
155°	318.0	318.0	321.1	324.1	327.2
157.5°	318.0	318.0	321.1	324.1	327.2
160°	321.1	321.1	321.1	324.1	324.1
162.5°	321.1	321.1	321.1	324.1	324.1
165°	321.1	321.1	321.1	324.1	324.1
167.5°	321.1	321.1	321.1	321.1	321.1
170°	321.1	321.1	321.1	321.1	321.1
172.5°	321.1	321.1	321.1	321.1	321.1
175°	321.1	321.1	321.1	321.1	321.1
177.5°	321.1	321.1	321.1	321.1	321.1
180°	321.1	321.1	321.1	321.1	321.1

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