

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: P213006

Luminaire Tested: **DSI-WS-60L830-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WS-60L830-1D-UNV-4-STD-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC, LIGHT LEVEL 5.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5697.8 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

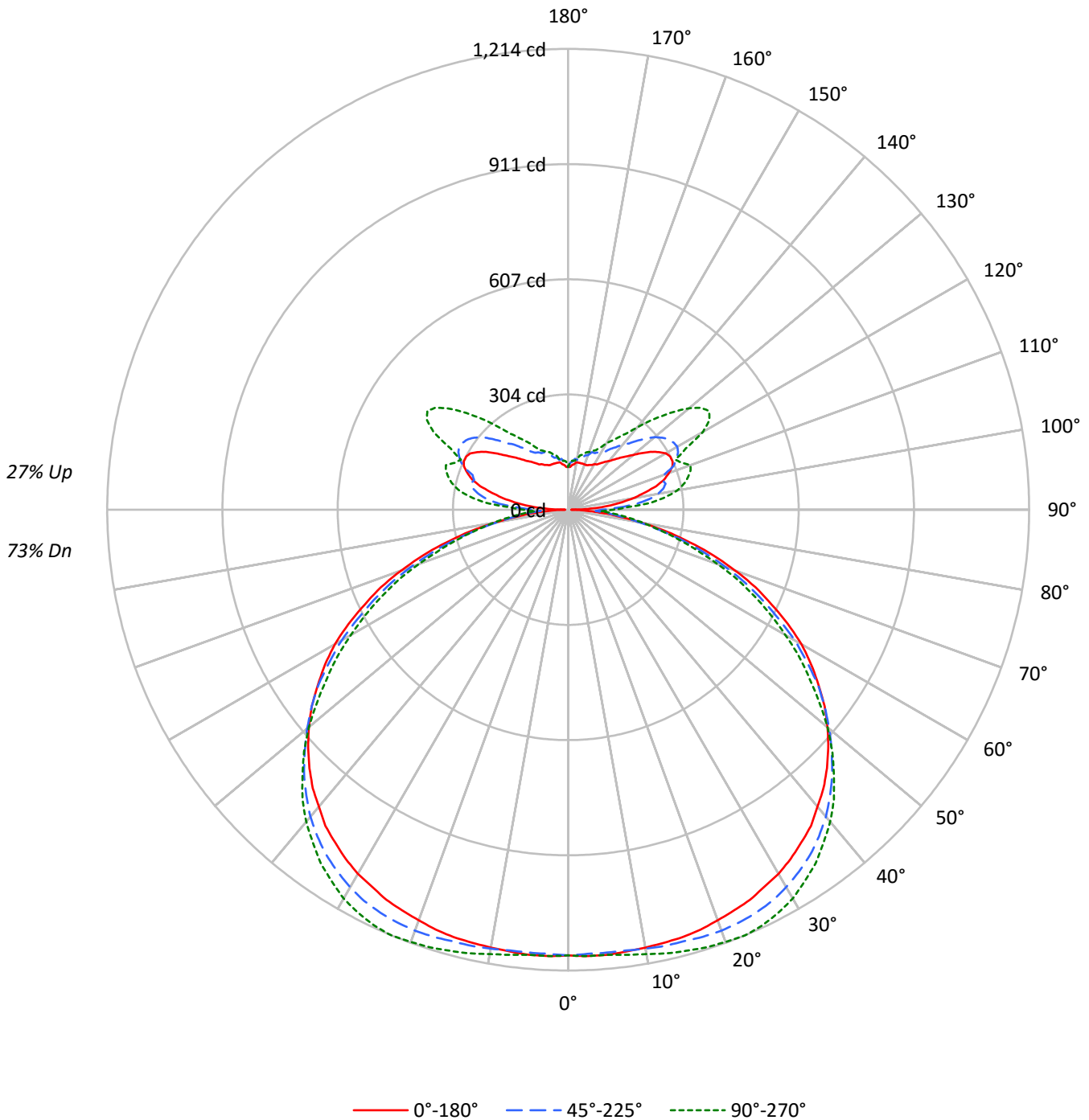
Input Watts (W): 46.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73				
1	102	97	93	89	97	92	89	85	83	80	78	75	73	70	67	65	64	60				
2	92	84	77	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49				
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41				
4	77	65	56	49	72	62	54	48	56	49	44	50	45	41	45	41	37	34				
5	70	57	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29				
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	25				
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	28	25	22				
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22	20				
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18				
10	48	35	27	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3956	3956	3956
5°	3981	3962	3981
10°	4007	4017	4067
15°	4066	4106	4197
20°	4127	4231	4345
25°	4215	4354	4494
30°	4310	4467	4602
35°	4403	4569	4675
40°	4492	4644	4721
45°	4591	4688	4715
50°	4673	4703	4673
55°	4729	4711	4559
60°	4783	4647	4452
65°	4715	4508	4324
70°	4604	4349	4121
75°	4320	4057	3906
80°	3751	3638	3918
85°	3012	4017	4686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	2.0
10°-20°	335.0	5.9
20°-30°	540.6	9.5
30°-40°	692.8	12.2
40°-50°	756.4	13.3
50°-60°	711.0	12.5
60°-70°	560.9	9.8
70°-80°	332.4	5.8
80°-90°	121.9	2.1
90°-100°	179.3	3.1
100°-110°	282.7	5.0
110°-120°	310.3	5.4
120°-130°	303.2	5.3
130°-140°	207.2	3.6
140°-150°	124.5	2.2
150°-160°	74.5	1.3
160°-170°	40.6	0.7
170°-180°	12.3	0.2
0°-30°	987.8	17.3
0°-40°	1680.6	29.5
0°-60°	3148.0	55.2
0°-90°	4163.2	73.1
90°-120°	772.3	13.6
90°-150°	1407.2	24.7
90°-180°	1535.0	26.9
0°-180°	5697.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1177	1177	1171	1177	1177	112
15°	1166	1168	1177	1197	1203	330
25°	1134	1145	1171	1200	1209	523
35°	1070	1085	1111	1134	1137	670
45°	964	972	984	992	990	743
55°	805	808	802	788	776	720
65°	591	586	565	554	542	586
75°	332	326	312	300	300	350
85°	78	84	104	118	121	88
90°	9	52	89	110	118	14
95°	98	138	182	214	222	94
105°	239	228	265	312	326	248
115°	303	291	314	312	312	296
125°	265	283	323	407	453	237
135°	193	216	257	314	349	151
145°	150	173	196	222	234	95
155°	130	147	164	170	173	61
165°	127	138	141	147	150	36
175°	118	130	127	130	130	11
180°	112	112	112	112	112	



TEST NUMBER: P213006

CATALOG NUMBER: DSI-WS-60L830-1D-UNV-4-STD-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.1	1174.1	1174.1	1174.1	1174.1
2.5°	1177.0	1177.0	1171.2	1177.0	1177.0
5°	1177.0	1177.0	1171.2	1177.0	1177.0
7.5°	1174.1	1174.1	1171.2	1182.8	1182.8
10°	1171.2	1174.1	1174.1	1188.5	1188.5
12.5°	1168.4	1171.2	1177.0	1191.4	1197.2
15°	1165.5	1168.4	1177.0	1197.2	1203.0
17.5°	1159.7	1165.5	1179.9	1203.0	1208.7
20°	1151.0	1159.7	1179.9	1205.9	1211.6
22.5°	1142.4	1153.9	1177.0	1203.0	1214.5
25°	1133.7	1145.3	1171.2	1200.1	1208.7
27.5°	1119.3	1133.7	1162.6	1188.5	1197.2
30°	1107.8	1122.2	1148.2	1174.1	1182.8
32.5°	1090.5	1104.9	1130.8	1153.9	1159.7
35°	1070.3	1084.7	1110.7	1133.7	1136.6
37.5°	1050.1	1064.5	1084.7	1102.0	1104.9
40°	1021.2	1035.6	1055.8	1067.4	1073.2
42.5°	995.3	1009.7	1021.2	1032.8	1035.6
45°	963.5	972.2	983.7	992.4	989.5
47.5°	928.9	937.6	940.5	949.1	943.3
50°	891.4	897.2	897.2	897.2	891.4
52.5°	851.0	851.0	851.0	842.4	833.7
55°	804.9	807.7	802.0	787.6	776.0
57.5°	758.7	758.7	744.3	729.9	721.2
60°	709.7	701.0	689.5	669.3	660.6
62.5°	652.0	643.3	626.0	611.6	602.9
65°	591.4	585.6	565.4	553.9	542.3
67.5°	533.7	525.0	504.8	487.5	484.6
70°	467.3	461.6	441.4	427.0	418.3
72.5°	401.0	392.3	375.0	363.5	354.8
75°	331.8	326.0	311.6	300.0	300.0
77.5°	265.4	259.6	245.2	245.2	245.2
80°	193.3	193.3	187.5	196.2	201.9
82.5°	132.7	132.7	141.4	155.8	158.7
85°	77.9	83.7	103.9	118.3	121.2
87.5°	34.6	49.0	72.1	83.7	86.5
90°	8.7	51.9	89.4	109.6	118.3
92.5°	51.9	98.1	135.6	150.0	155.8
95°	98.1	138.5	181.7	213.5	222.1
97.5°	135.6	164.4	216.4	251.0	259.6
100°	173.1	176.0	239.4	279.8	291.4
102.5°	204.8	201.9	256.7	297.1	311.6
105°	239.4	227.9	265.4	311.6	326.0
107.5°	265.4	248.1	259.6	323.1	337.5
110°	282.7	268.3	268.3	314.4	343.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	297.1	282.7	300.0	300.0	323.1
115°	302.9	291.4	314.4	311.6	311.6
117.5°	302.9	297.1	326.0	366.4	349.1
120°	297.1	300.0	331.8	401.0	409.6
122.5°	282.7	294.3	328.9	412.5	441.4
125°	265.4	282.7	323.1	406.8	452.9
127.5°	245.2	268.3	311.6	395.2	441.4
130°	225.0	251.0	297.1	372.1	415.4
132.5°	207.7	236.6	276.9	343.3	383.7
135°	193.3	216.4	256.7	314.4	349.1
137.5°	178.9	204.8	236.6	288.5	317.3
140°	167.3	196.2	225.0	259.6	282.7
142.5°	158.7	184.6	207.7	236.6	253.9
145°	150.0	173.1	196.2	222.1	233.7
147.5°	141.4	167.3	181.7	207.7	216.4
150°	138.5	158.7	173.1	193.3	201.9
152.5°	132.7	150.0	170.2	181.7	184.6
155°	129.8	147.1	164.4	170.2	173.1
157.5°	126.9	147.1	164.4	164.4	167.3
160°	126.9	138.5	152.9	164.4	161.5
162.5°	126.9	135.6	150.0	161.5	158.7
165°	126.9	138.5	141.4	147.1	150.0
167.5°	126.9	135.6	141.4	144.2	147.1
170°	126.9	129.8	132.7	141.4	135.6
172.5°	121.2	129.8	135.6	132.7	129.8
175°	118.3	129.8	126.9	129.8	129.8
177.5°	112.5	118.3	124.0	126.9	126.9
180°	112.5	112.5	112.5	112.5	112.5

(END OF REPORT)