

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: P213047

Luminaire Tested: **DSI-WS-50L835-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35731)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WS-50L835-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 4.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4894.9 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.4 / 1.49  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

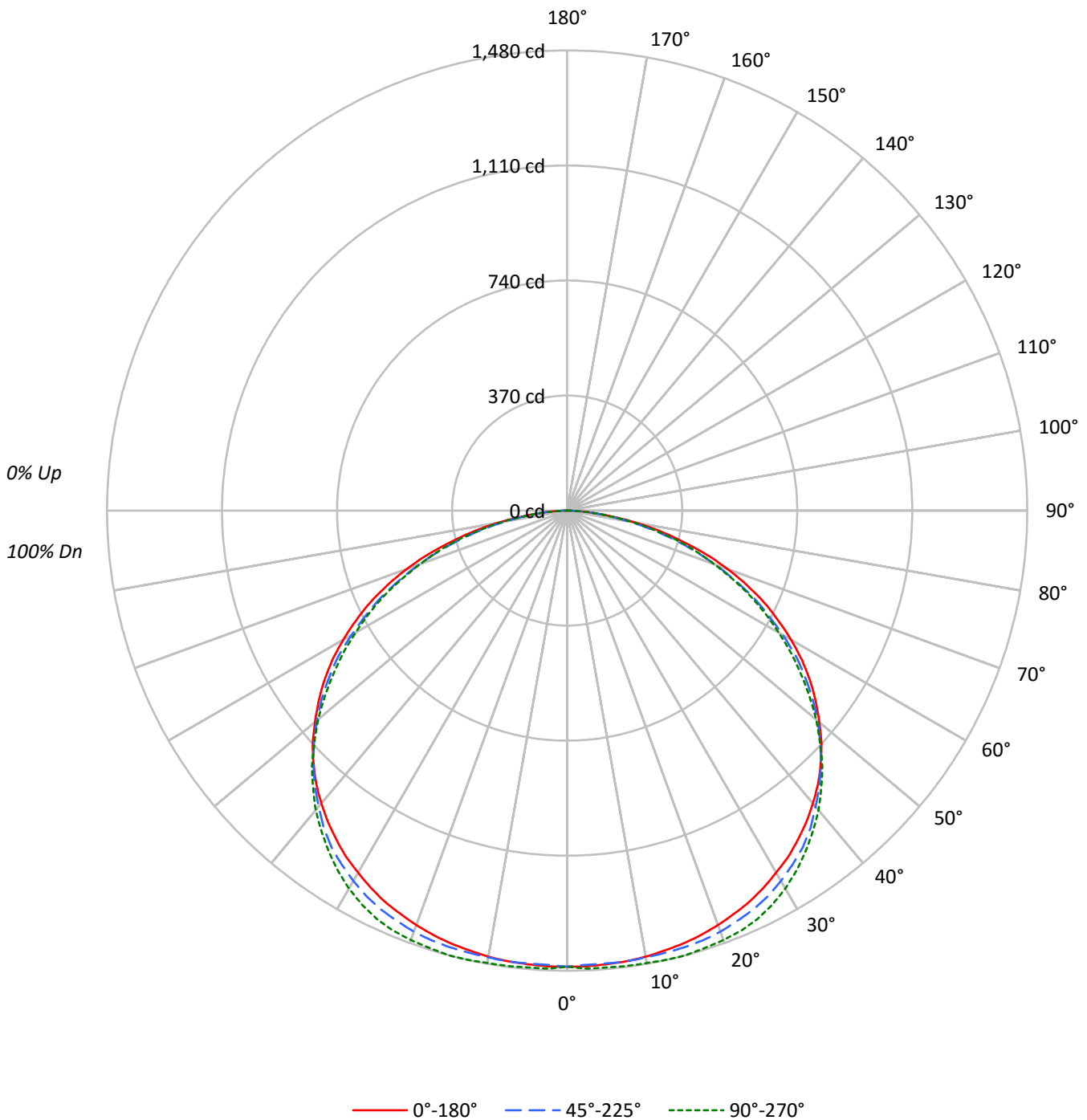
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	43	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24		36	29	24		35	29	24	22

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

	0°	45°	90°
0°	4944	4944	4944
5°	4954	4945	4988
10°	4985	4993	5055
15°	5029	5073	5162
20°	5087	5169	5270
25°	5160	5265	5388
30°	5232	5351	5460
35°	5321	5436	5500
40°	5409	5466	5533
45°	5496	5496	5532
50°	5550	5511	5484
55°	5606	5486	5396
60°	5606	5399	5296
65°	5574	5269	5187
70°	5405	4977	4952
75°	5016	4550	4717
80°	4356	3912	4110
85°	3155	3058	3155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	2.9
10°-20°	412.7	8.4
20°-30°	654.0	13.4
30°-40°	824.9	16.9
40°-50°	891.1	18.2
50°-60°	835.8	17.1
60°-70°	658.2	13.4
70°-80°	383.1	7.8
80°-90°	95.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1206.7	24.7
0°-40°	2031.6	41.5
0°-60°	3758.5	76.8
0°-90°	4894.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4894.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1464	1467	1462	1472	1475	140
15°	1442	1447	1454	1472	1480	408
25°	1388	1398	1416	1439	1449	640
35°	1294	1304	1322	1334	1337	810
45°	1153	1156	1153	1158	1161	889
55°	954	952	934	924	918	851
65°	699	686	661	653	651	688
75°	385	372	350	357	362	408
85°	82	82	79	82	82	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1467.1	1467.1	1467.1	1467.1	1467.1
2.5°	1467.1	1467.1	1462.0	1469.6	1474.7
5°	1464.5	1467.1	1462.0	1472.2	1474.7
7.5°	1462.0	1462.0	1462.0	1472.2	1477.3
10°	1456.9	1459.4	1459.4	1474.7	1477.3
12.5°	1449.2	1454.3	1456.9	1472.2	1479.8
15°	1441.6	1446.7	1454.3	1472.2	1479.8
17.5°	1431.4	1439.0	1449.2	1469.6	1474.7
20°	1418.6	1426.3	1441.6	1464.5	1469.6
22.5°	1403.3	1416.0	1428.8	1451.8	1462.0
25°	1388.0	1398.2	1416.0	1439.0	1449.2
27.5°	1367.6	1380.3	1398.2	1418.6	1428.8
30°	1344.6	1359.9	1375.2	1398.2	1403.3
32.5°	1321.6	1334.4	1349.7	1367.6	1372.7
35°	1293.6	1303.8	1321.6	1334.4	1337.0
37.5°	1263.0	1273.2	1285.9	1296.1	1298.7
40°	1229.8	1237.4	1242.6	1252.8	1257.9
42.5°	1194.1	1199.2	1201.7	1206.8	1209.4
45°	1153.3	1155.8	1153.3	1158.4	1160.9
47.5°	1109.9	1109.9	1104.8	1104.8	1102.2
50°	1058.8	1058.8	1051.2	1046.1	1046.1
52.5°	1007.8	1007.8	995.1	987.4	982.3
55°	954.2	951.7	933.8	923.6	918.5
57.5°	895.6	890.5	872.6	857.3	854.7
60°	831.8	824.1	801.2	790.9	785.8
62.5°	765.4	755.2	729.7	722.1	719.5
65°	699.1	686.3	660.8	653.2	650.6
67.5°	625.1	609.8	581.7	576.6	576.6
70°	548.6	530.7	505.2	505.2	502.6
72.5°	469.5	454.2	428.6	433.7	433.7
75°	385.3	372.5	349.5	357.2	362.3
77.5°	306.2	285.8	275.6	283.2	283.2
80°	224.5	211.8	201.6	204.1	211.8
82.5°	145.4	140.3	135.2	137.8	137.8
85°	81.6	81.6	79.1	81.6	81.6
87.5°	35.7	35.7	25.5	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)