

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: P213108

Luminaire Tested: **DSI-WD-50L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35735)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-50L840-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 4.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5104.5 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.38 / 1.47  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

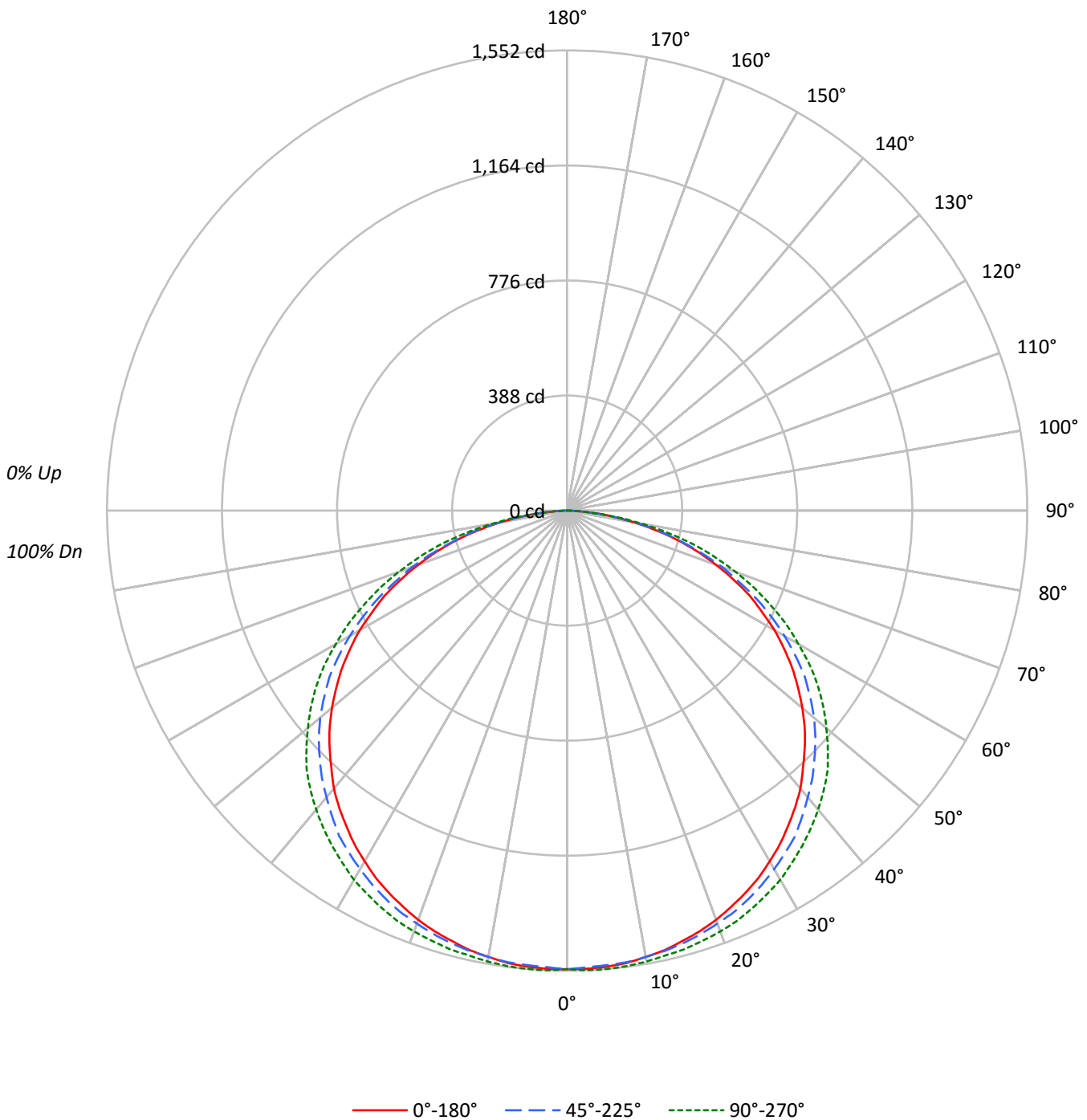
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	58	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	5212	5212	5212
5°	5223	5205	5249
10°	5230	5230	5283
15°	5242	5269	5342
20°	5268	5315	5416
25°	5289	5376	5501
30°	5315	5435	5596
35°	5343	5512	5682
40°	5384	5554	5793
45°	5401	5623	5919
50°	5428	5699	5983
55°	5446	5749	6067
60°	5447	5707	6073
65°	5415	5620	6052
70°	5266	5470	5953
75°	5042	5110	5748
80°	4409	4510	5010
85°	3294	3294	3093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	2.9
10°-20°	428.4	8.4
20°-30°	668.7	13.1
30°-40°	838.7	16.4
40°-50°	914.1	17.9
50°-60°	873.4	17.1
60°-70°	703.7	13.8
70°-80°	426.3	8.4
80°-90°	104.2	2.0
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°	1244.2	24.4
0°-40°	2082.9	40.8
0°-60°	3870.3	75.8
0°-90°	5104.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1544	1547	1539	1549	1552	147
15°	1503	1508	1510	1526	1531	425
25°	1423	1428	1446	1469	1480	656
35°	1299	1312	1340	1368	1381	814
45°	1134	1152	1180	1221	1242	875
55°	927	948	979	1015	1033	827
65°	679	689	705	738	759	668
75°	387	392	392	424	442	405
85°	85	83	85	83	80	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1546.7	1546.7	1546.7	1546.7	1546.7
2.5°	1546.7	1546.7	1541.5	1549.3	1551.9
5°	1544.1	1546.7	1538.9	1549.3	1551.9
7.5°	1538.9	1538.9	1536.4	1544.1	1549.3
10°	1528.6	1531.2	1528.6	1538.9	1544.1
12.5°	1518.3	1520.9	1520.9	1533.8	1536.4
15°	1502.8	1508.0	1510.5	1526.0	1531.2
17.5°	1487.3	1492.5	1497.6	1515.7	1520.9
20°	1469.2	1477.0	1482.1	1502.8	1510.5
22.5°	1446.0	1453.7	1466.6	1487.3	1497.6
25°	1422.7	1427.9	1446.0	1469.2	1479.6
27.5°	1396.9	1404.7	1422.7	1448.6	1458.9
30°	1365.9	1378.8	1396.9	1425.3	1438.2
32.5°	1335.0	1347.9	1368.5	1396.9	1409.8
35°	1298.8	1311.7	1340.1	1368.5	1381.4
37.5°	1262.7	1275.6	1301.4	1335.0	1350.4
40°	1223.9	1236.8	1262.7	1301.4	1316.9
42.5°	1177.4	1195.5	1223.9	1262.7	1280.7
45°	1133.5	1151.6	1180.0	1221.3	1242.0
47.5°	1087.1	1105.1	1136.1	1177.4	1192.9
50°	1035.4	1053.5	1087.1	1125.8	1141.3
52.5°	981.2	1004.4	1032.8	1071.6	1089.7
55°	927.0	947.6	978.6	1014.8	1032.8
57.5°	867.6	883.1	914.1	950.2	970.9
60°	808.2	821.1	846.9	883.1	901.2
62.5°	741.1	756.6	777.2	813.4	834.0
65°	679.1	689.4	704.9	738.5	759.1
67.5°	606.8	614.5	627.5	666.2	684.3
70°	534.5	544.8	555.2	588.7	604.2
72.5°	462.2	469.9	475.1	503.5	524.2
75°	387.3	392.5	392.5	423.5	441.5
77.5°	307.3	309.9	317.6	338.3	348.6
80°	227.2	235.0	232.4	247.9	258.2
82.5°	152.3	152.3	152.3	160.1	165.3
85°	85.2	82.6	85.2	82.6	80.0
87.5°	28.4	33.6	23.2	18.1	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)