

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: P213107

Luminaire Tested: **DSI-WD-40L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213107  
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-40L840-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 3.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4047.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

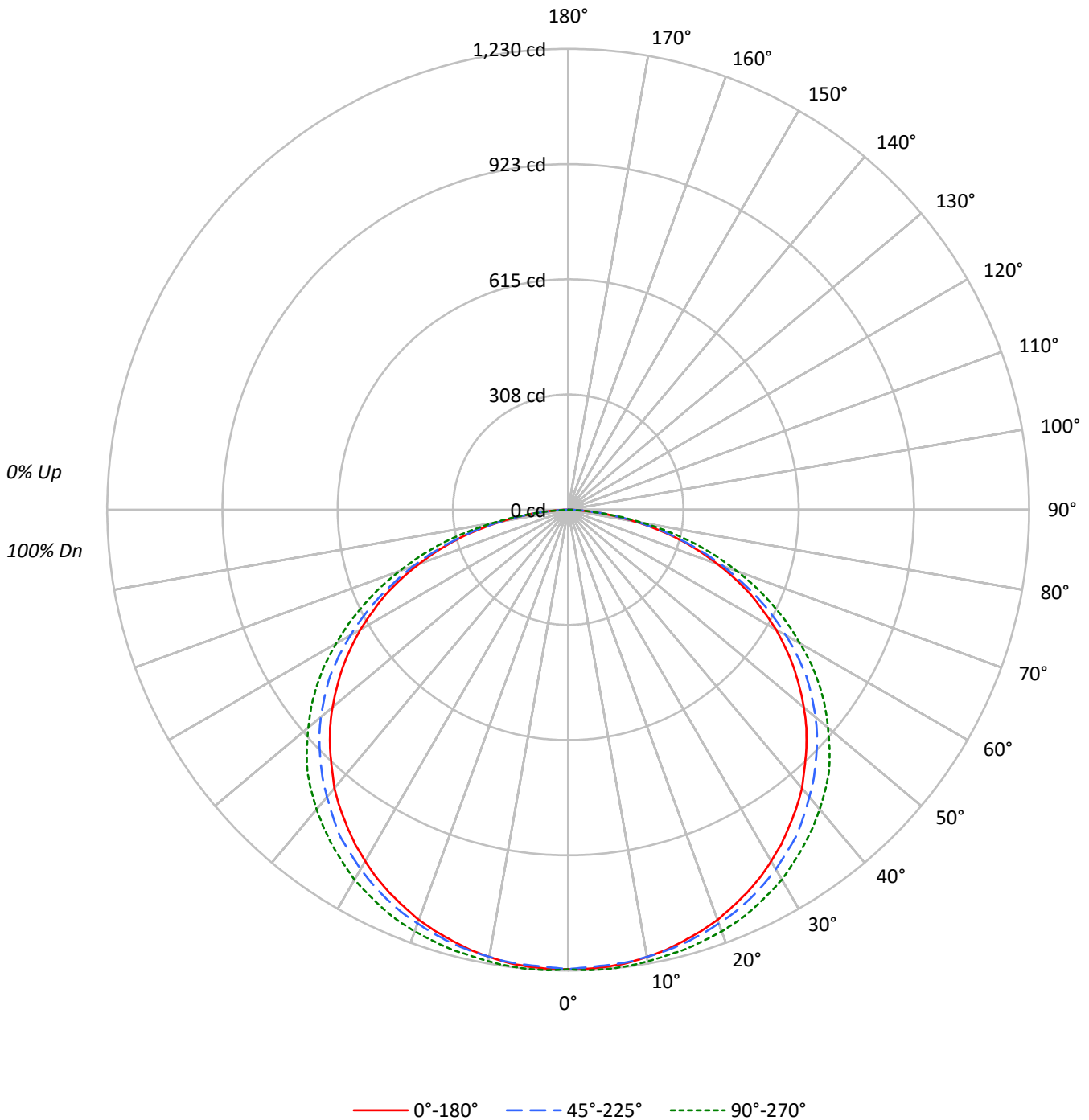
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213107

CATALOG NUMBER: DSI-WD-40L840-1D-UNV-4-STD-SC-W

### Luminous Intensity Polar Plot





TEST NUMBER: P213107

CATALOG NUMBER: DSI-WD-40L840-1D-UNV-4-STD-SC-W

**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°	4132	4132	4132
5°	4141	4127	4162
10°	4147	4147	4189
15°	4156	4178	4235
20°	4177	4214	4294
25°	4194	4262	4361
30°	4214	4309	4437
35°	4236	4371	4506
40°	4268	4404	4593
45°	4283	4458	4692
50°	4303	4518	4744
55°	4317	4558	4811
60°	4318	4525	4815
65°	4293	4456	4799
70°	4175	4336	4719
75°	3998	4052	4558
80°	3497	3574	3972
85°	2614	2614	2455



TEST NUMBER: P213107

CATALOG NUMBER: DSI-WD-40L840-1D-UNV-4-STD-SC-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	2.9
10°-20°	339.6	8.4
20°-30°	530.2	13.1
30°-40°	664.9	16.4
40°-50°	724.7	17.9
50°-60°	692.4	17.1
60°-70°	557.9	13.8
70°-80°	338.0	8.4
80°-90°	82.6	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°	986.5	24.4
0°-40°	1651.4	40.8
0°-60°	3068.6	75.8
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1224	1226	1220	1228	1230	116
15°	1192	1196	1198	1210	1214	337
25°	1128	1132	1146	1165	1173	520
35°	1030	1040	1062	1085	1095	645
45°	899	913	936	968	985	693
55°	735	751	776	805	819	656
65°	538	547	559	586	602	530
75°	307	311	311	336	350	321
85°	68	66	68	66	64	82
90°	0	0	0	0	0	



TEST NUMBER: P213107

CATALOG NUMBER: DSI-WD-40L840-1D-UNV-4-STD-SC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1226.3	1226.3	1226.3	1226.3	1226.3
2.5°	1226.3	1226.3	1222.2	1228.3	1230.4
5°	1224.2	1226.3	1220.1	1228.3	1230.4
7.5°	1220.1	1220.1	1218.1	1224.2	1228.3
10°	1211.9	1214.0	1211.9	1220.1	1224.2
12.5°	1203.8	1205.8	1205.8	1216.0	1218.1
15°	1191.5	1195.6	1197.6	1209.9	1214.0
17.5°	1179.2	1183.3	1187.4	1201.7	1205.8
20°	1164.9	1171.0	1175.1	1191.5	1197.6
22.5°	1146.4	1152.6	1162.8	1179.2	1187.4
25°	1128.0	1132.1	1146.4	1164.9	1173.0
27.5°	1107.5	1113.7	1128.0	1148.5	1156.7
30°	1083.0	1093.2	1107.5	1130.1	1140.3
32.5°	1058.4	1068.6	1085.0	1107.5	1117.8
35°	1029.7	1040.0	1062.5	1085.0	1095.3
37.5°	1001.1	1011.3	1031.8	1058.4	1070.7
40°	970.4	980.6	1001.1	1031.8	1044.1
42.5°	933.5	947.9	970.4	1001.1	1015.4
45°	898.7	913.1	935.6	968.3	984.7
47.5°	861.9	876.2	900.8	933.5	945.8
50°	820.9	835.3	861.9	892.6	904.9
52.5°	777.9	796.4	818.9	849.6	863.9
55°	734.9	751.3	775.9	804.6	818.9
57.5°	687.9	700.1	724.7	753.4	769.7
60°	640.8	651.0	671.5	700.1	714.5
62.5°	587.5	599.8	616.2	644.9	661.2
65°	538.4	546.6	558.9	585.5	601.9
67.5°	481.1	487.2	497.5	528.2	542.5
70°	423.8	432.0	440.1	466.8	479.0
72.5°	366.4	372.6	376.7	399.2	415.6
75°	307.1	311.2	311.2	335.7	350.1
77.5°	243.6	245.7	251.8	268.2	276.4
80°	180.2	186.3	184.2	196.5	204.7
82.5°	120.8	120.8	120.8	126.9	131.0
85°	67.6	65.5	67.6	65.5	63.5
87.5°	22.5	26.6	18.4	14.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)