

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: P213097

Luminaire Tested: **DSI-WD-40L830-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213097  
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-40L830-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 3.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3818.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

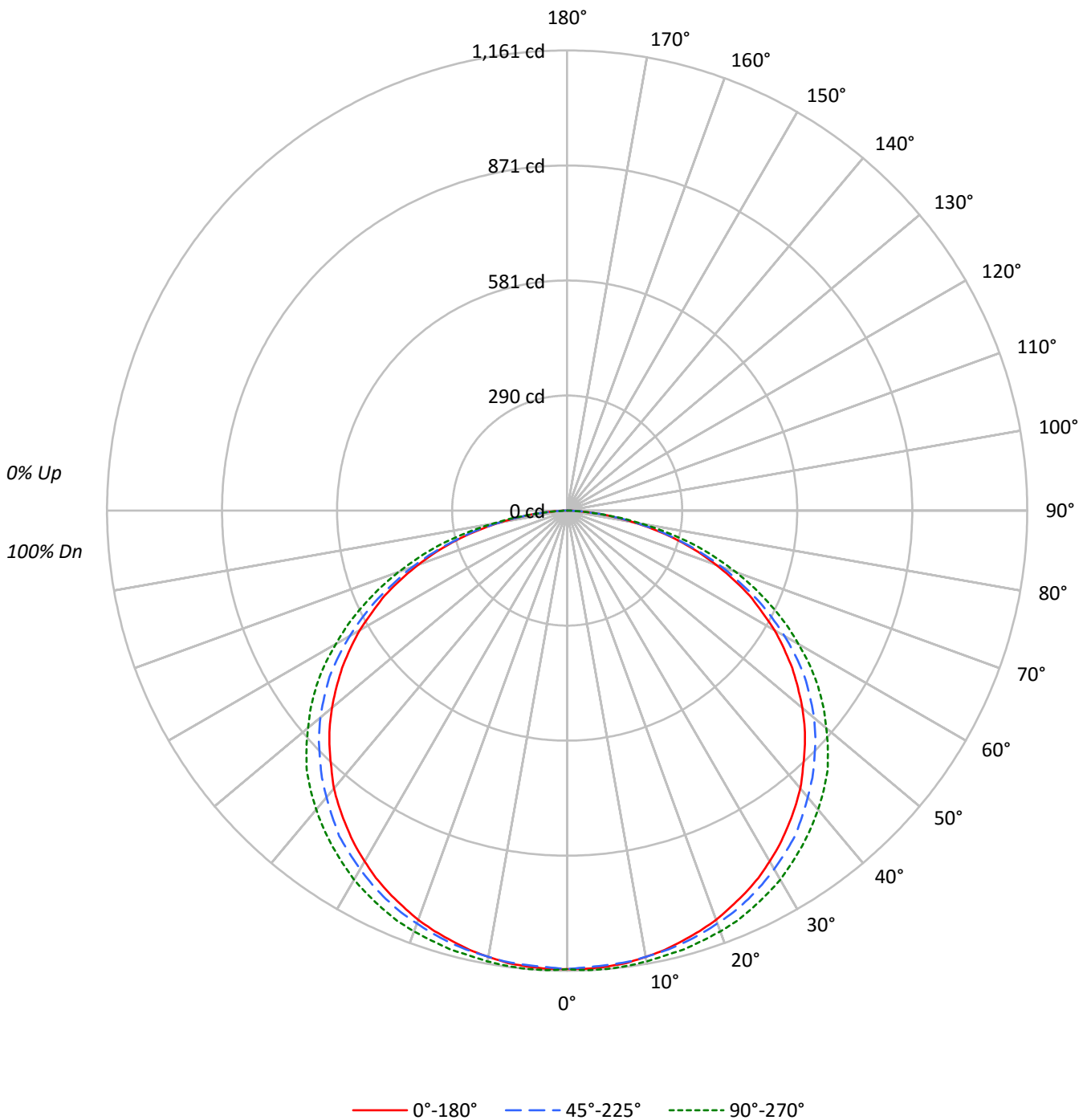
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3898	3898	3898
5°	3906	3894	3926
10°	3912	3912	3952
15°	3921	3941	3995
20°	3940	3975	4051
25°	3957	4021	4114
30°	3975	4065	4185
35°	3996	4123	4250
40°	4027	4154	4333
45°	4040	4206	4427
50°	4060	4262	4475
55°	4073	4300	4538
60°	4074	4269	4542
65°	4050	4204	4527
70°	3939	4091	4452
75°	3772	3822	4300
80°	3299	3373	3747
85°	2463	2463	2316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	2.9
10°-20°	320.4	8.4
20°-30°	500.1	13.1
30°-40°	627.3	16.4
40°-50°	683.7	17.9
50°-60°	653.3	17.1
60°-70°	526.4	13.8
70°-80°	318.9	8.4
80°-90°	77.9	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°	930.6	24.4
0°-40°	1557.9	40.8
0°-60°	2894.8	75.8
0°-90°	3818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1155	1157	1151	1159	1161	110
15°	1124	1128	1130	1141	1145	318
25°	1064	1068	1082	1099	1107	491
35°	972	981	1002	1024	1033	609
45°	848	861	883	914	929	654
55°	693	709	732	759	772	619
65°	508	516	527	552	568	500
75°	290	294	294	317	330	303
85°	64	62	64	62	60	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1156.9	1156.9	1156.9	1156.9	<i>1156.9</i>
2.5°	<i>1156.9</i>	<i>1156.9</i>	<i>1153.0</i>	<i>1158.8</i>	<i>1160.7</i>
5°	1154.9	1156.9	1151.1	1158.8	<i>1160.7</i>
7.5°	1151.1	1151.1	1149.1	1154.9	<i>1158.8</i>
10°	1143.3	1145.3	1143.3	1151.1	<i>1154.9</i>
12.5°	1135.6	1137.6	1137.6	1147.2	<i>1149.1</i>
15°	1124.0	1127.9	1129.8	1141.4	<i>1145.3</i>
17.5°	1112.4	1116.3	1120.2	1133.7	<i>1137.6</i>
20°	1098.9	1104.7	1108.6	1124.0	<i>1129.8</i>
22.5°	1081.5	1087.3	1097.0	1112.4	<i>1120.2</i>
25°	1064.2	1068.0	1081.5	1098.9	<i>1106.6</i>
27.5°	1044.8	1050.6	1064.2	1083.5	<i>1091.2</i>
30°	1021.7	1031.3	1044.8	1066.1	<i>1075.7</i>
32.5°	998.5	1008.2	1023.6	1044.8	<i>1054.5</i>
35°	971.5	981.1	1002.4	1023.6	<i>1033.3</i>
37.5°	944.4	954.1	973.4	998.5	<i>1010.1</i>
40°	915.4	925.1	944.4	973.4	<i>985.0</i>
42.5°	880.7	894.2	915.4	944.4	<i>957.9</i>
45°	847.9	861.4	882.6	913.5	<i>929.0</i>
47.5°	813.1	826.6	849.8	880.7	<i>892.3</i>
50°	774.5	788.0	813.1	842.1	<i>853.6</i>
52.5°	733.9	751.3	772.5	801.5	<i>815.0</i>
55°	693.3	708.8	732.0	759.0	<i>772.5</i>
57.5°	648.9	660.5	683.7	710.7	<i>726.2</i>
60°	604.5	614.2	633.5	660.5	<i>674.0</i>
62.5°	554.3	565.9	581.3	608.4	<i>623.8</i>
65°	507.9	515.7	527.3	552.4	<i>567.8</i>
67.5°	453.9	459.7	469.3	498.3	<i>511.8</i>
70°	399.8	407.5	415.2	440.3	<i>451.9</i>
72.5°	345.7	351.5	355.4	376.6	<i>392.1</i>
75°	289.7	293.6	293.6	316.7	<i>330.3</i>
77.5°	229.8	231.8	237.6	253.0	<i>260.7</i>
80°	170.0	175.8	173.8	185.4	<i>193.1</i>
82.5°	113.9	113.9	113.9	119.7	<i>123.6</i>
85°	63.7	61.8	63.7	61.8	<i>59.9</i>
87.5°	21.2	25.1	17.4	13.5	<i>11.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)