

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: P213041

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213041
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-40L830-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR 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: 3705.2 lumens
Efficiency: N/A
Efficacy: 123.5 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

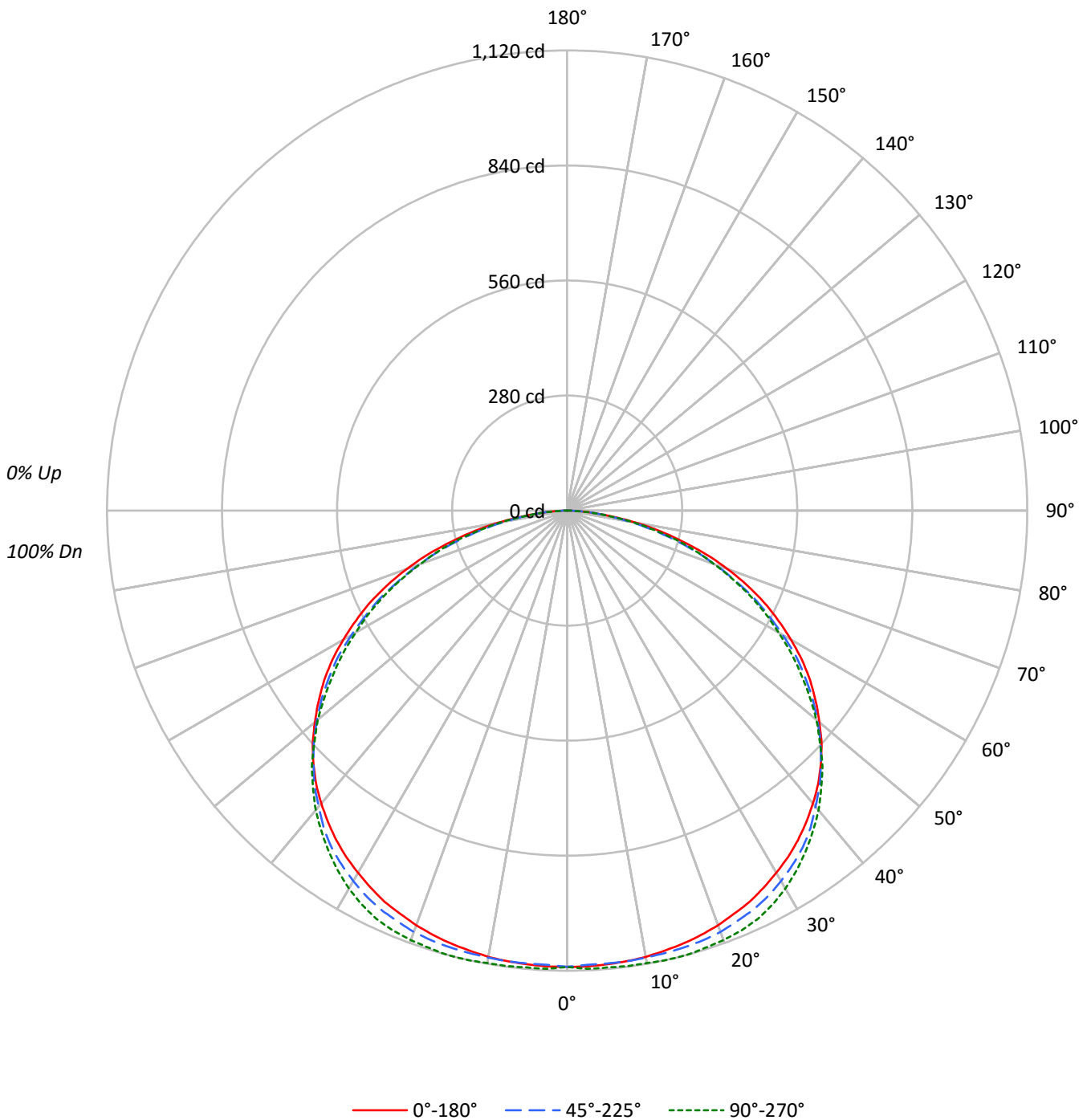
Input Watts (W): 30
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3742	3742	3742
5°	3750	3743	3776
10°	3773	3780	3826
15°	3807	3840	3908
20°	3850	3913	3989
25°	3906	3985	4079
30°	3960	4050	4133
35°	4028	4115	4163
40°	4095	4137	4188
45°	4160	4160	4188
50°	4202	4171	4151
55°	4243	4153	4085
60°	4243	4087	4008
65°	4219	3988	3927
70°	4091	3767	3749
75°	3796	3445	3570
80°	3299	2961	3111
85°	2389	2316	2389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	2.9
10°-20°	312.4	8.4
20°-30°	495.0	13.4
30°-40°	624.4	16.9
40°-50°	674.5	18.2
50°-60°	632.7	17.1
60°-70°	498.3	13.4
70°-80°	290.0	7.8
80°-90°	72.0	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°	913.4	24.7
0°-40°	1537.9	41.5
0°-60°	2845.0	76.8
0°-90°	3705.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1109	1110	1107	1114	1116	106
15°	1091	1095	1101	1114	1120	309
25°	1051	1058	1072	1089	1097	485
35°	979	987	1000	1010	1012	613
45°	873	875	873	877	879	673
55°	722	720	707	699	695	644
65°	529	520	500	494	492	521
75°	292	282	265	270	274	309
85°	62	62	60	62	62	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.5	1110.5	1110.5	1110.5	1110.5
2.5°	1110.5	1110.5	1106.6	1112.4	1116.3
5°	1108.6	1110.5	1106.6	1114.4	1116.3
7.5°	1106.6	1106.6	1106.6	1114.4	1118.2
10°	1102.8	1104.7	1104.7	1116.3	1118.2
12.5°	1097.0	1100.9	1102.8	1114.4	1120.2
15°	1091.2	1095.1	1100.9	1114.4	1120.2
17.5°	1083.5	1089.3	1097.0	1112.4	1116.3
20°	1073.8	1079.6	1091.2	1108.6	1112.4
22.5°	1062.2	1071.9	1081.5	1098.9	1106.6
25°	1050.6	1058.4	1071.9	1089.3	1097.0
27.5°	1035.2	1044.8	1058.4	1073.8	1081.5
30°	1017.8	1029.4	1041.0	1058.4	1062.2
32.5°	1000.4	1010.1	1021.7	1035.2	1039.1
35°	979.2	986.9	1000.4	1010.1	1012.0
37.5°	956.0	963.7	973.4	981.1	983.0
40°	930.9	936.7	940.6	948.3	952.1
42.5°	903.9	907.7	909.7	913.5	915.4
45°	873.0	874.9	873.0	876.8	878.8
47.5°	840.1	840.1	836.3	836.3	834.3
50°	801.5	801.5	795.7	791.8	791.8
52.5°	762.9	762.9	753.2	747.4	743.6
55°	722.3	720.4	706.9	699.1	695.3
57.5°	677.9	674.0	660.5	648.9	647.0
60°	629.6	623.8	606.4	598.7	594.8
62.5°	579.4	571.7	552.4	546.6	544.6
65°	529.2	519.5	500.2	494.4	492.5
67.5°	473.2	461.6	440.3	436.5	436.5
70°	415.2	401.7	382.4	382.4	380.5
72.5°	355.4	343.8	324.5	328.3	328.3
75°	291.6	282.0	264.6	270.4	274.2
77.5°	231.8	216.3	208.6	214.4	214.4
80°	170.0	160.3	152.6	154.5	160.3
82.5°	110.1	106.2	102.4	104.3	104.3
85°	61.8	61.8	59.9	61.8	61.8
87.5°	27.0	27.0	19.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)