

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: P213052

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213052
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-50L840-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 4.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4953.8 lumens
Efficiency: N/A
Efficacy: 131.1 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

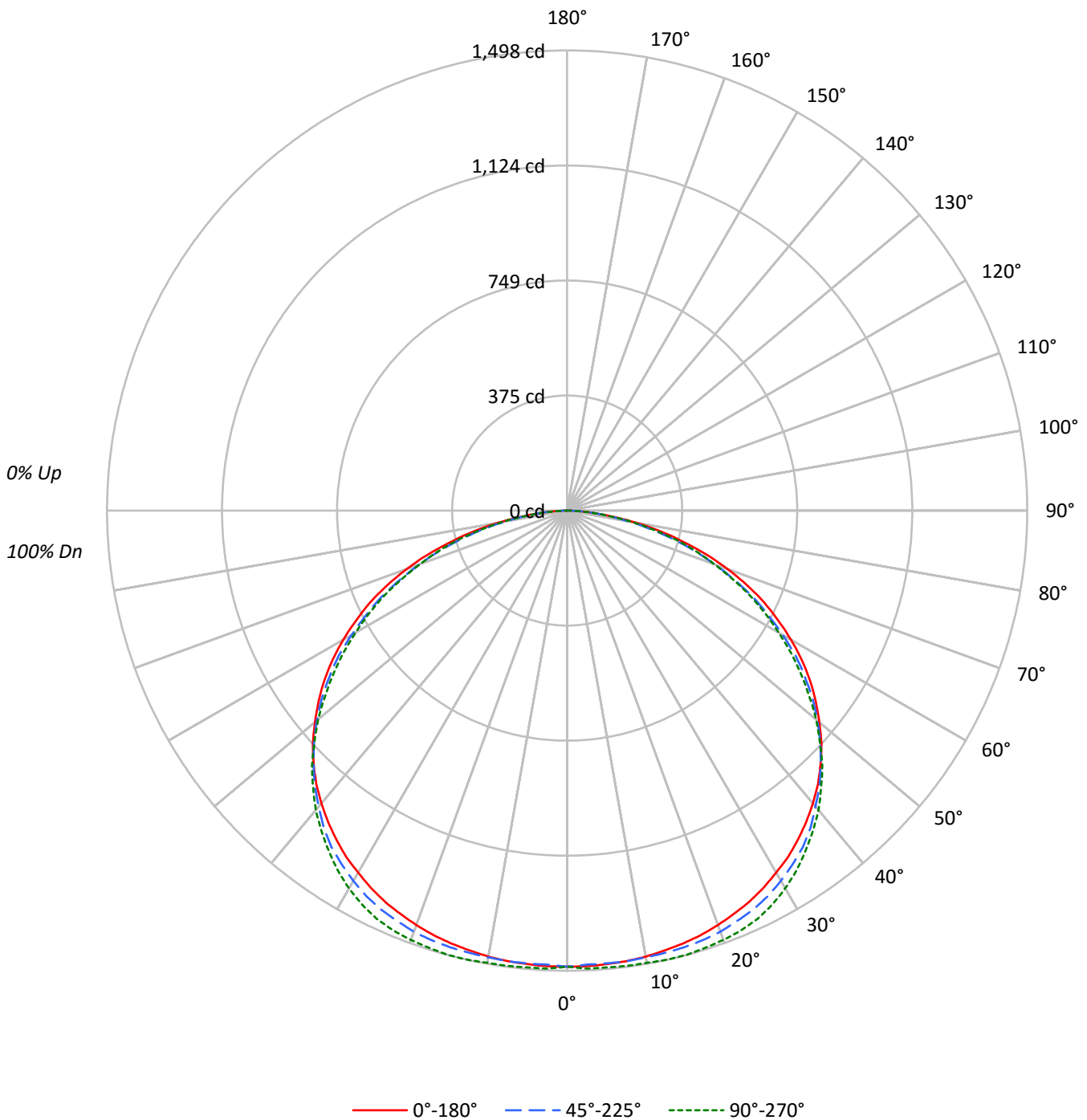
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5003	5003	5003
5°	5013	5004	5048
10°	5045	5054	5115
15°	5089	5134	5224
20°	5148	5231	5333
25°	5223	5328	5453
30°	5295	5415	5526
35°	5385	5502	5566
40°	5475	5531	5600
45°	5562	5562	5599
50°	5617	5577	5550
55°	5673	5552	5461
60°	5673	5464	5360
65°	5641	5332	5249
70°	5470	5037	5012
75°	5076	4605	4774
80°	4409	3959	4158
85°	3193	3093	3193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	2.9
10°-20°	417.7	8.4
20°-30°	661.9	13.4
30°-40°	834.8	16.9
40°-50°	901.8	18.2
50°-60°	845.8	17.1
60°-70°	666.1	13.4
70°-80°	387.7	7.8
80°-90°	96.2	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°	1221.2	24.7
0°-40°	2056.1	41.5
0°-60°	3803.7	76.8
0°-90°	4953.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1482	1485	1480	1490	1492	141
15°	1459	1464	1472	1490	1498	413
25°	1405	1415	1433	1456	1467	648
35°	1309	1320	1338	1350	1353	820
45°	1167	1170	1167	1172	1175	900
55°	966	963	945	935	930	861
65°	708	695	669	661	658	696
75°	390	377	354	362	367	413
85°	83	83	80	83	83	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1484.7	1484.7	1479.5	1487.3	1492.5
5°	1482.1	1484.7	1479.5	1489.9	1492.5
7.5°	1479.5	1479.5	1479.5	1489.9	1495.0
10°	1474.4	1477.0	1477.0	1492.5	1495.0
12.5°	1466.6	1471.8	1474.4	1489.9	1497.6
15°	1458.9	1464.1	1471.8	1489.9	1497.6
17.5°	1448.6	1456.3	1466.6	1487.3	1492.5
20°	1435.7	1443.4	1458.9	1482.1	1487.3
22.5°	1420.2	1433.1	1446.0	1469.2	1479.5
25°	1404.7	1415.0	1433.1	1456.3	1466.6
27.5°	1384.0	1396.9	1415.0	1435.7	1446.0
30°	1360.8	1376.3	1391.8	1415.0	1420.2
32.5°	1337.5	1350.4	1365.9	1384.0	1389.2
35°	1309.1	1319.5	1337.5	1350.4	1353.0
37.5°	1278.1	1288.5	1301.4	1311.7	1314.3
40°	1244.6	1252.3	1257.5	1267.8	1273.0
42.5°	1208.4	1213.6	1216.2	1221.3	1223.9
45°	1167.1	1169.7	1167.1	1172.3	1174.9
47.5°	1123.2	1123.2	1118.1	1118.1	1115.5
50°	1071.6	1071.6	1063.8	1058.7	1058.7
52.5°	1019.9	1019.9	1007.0	999.3	994.1
55°	965.7	963.1	945.1	934.7	929.6
57.5°	906.3	901.2	883.1	867.6	865.0
60°	841.8	834.0	810.8	800.5	795.3
62.5°	774.6	764.3	738.5	730.7	728.2
65°	707.5	694.6	668.8	661.0	658.4
67.5°	632.6	617.1	588.7	583.6	583.6
70°	555.2	537.1	511.3	511.3	508.7
72.5°	475.1	459.6	433.8	439.0	439.0
75°	389.9	377.0	353.7	361.5	366.7
77.5°	309.9	289.2	278.9	286.6	286.6
80°	227.2	214.3	204.0	206.6	214.3
82.5°	147.2	142.0	136.9	139.4	139.4
85°	82.6	82.6	80.0	82.6	82.6
87.5°	36.1	36.1	25.8	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)