

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: P213103

Luminaire Tested: **DSI-WD-50L835-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213103
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-50L835-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 4.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5043.8 lumens
Efficiency: N/A
Efficacy: 133.4 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

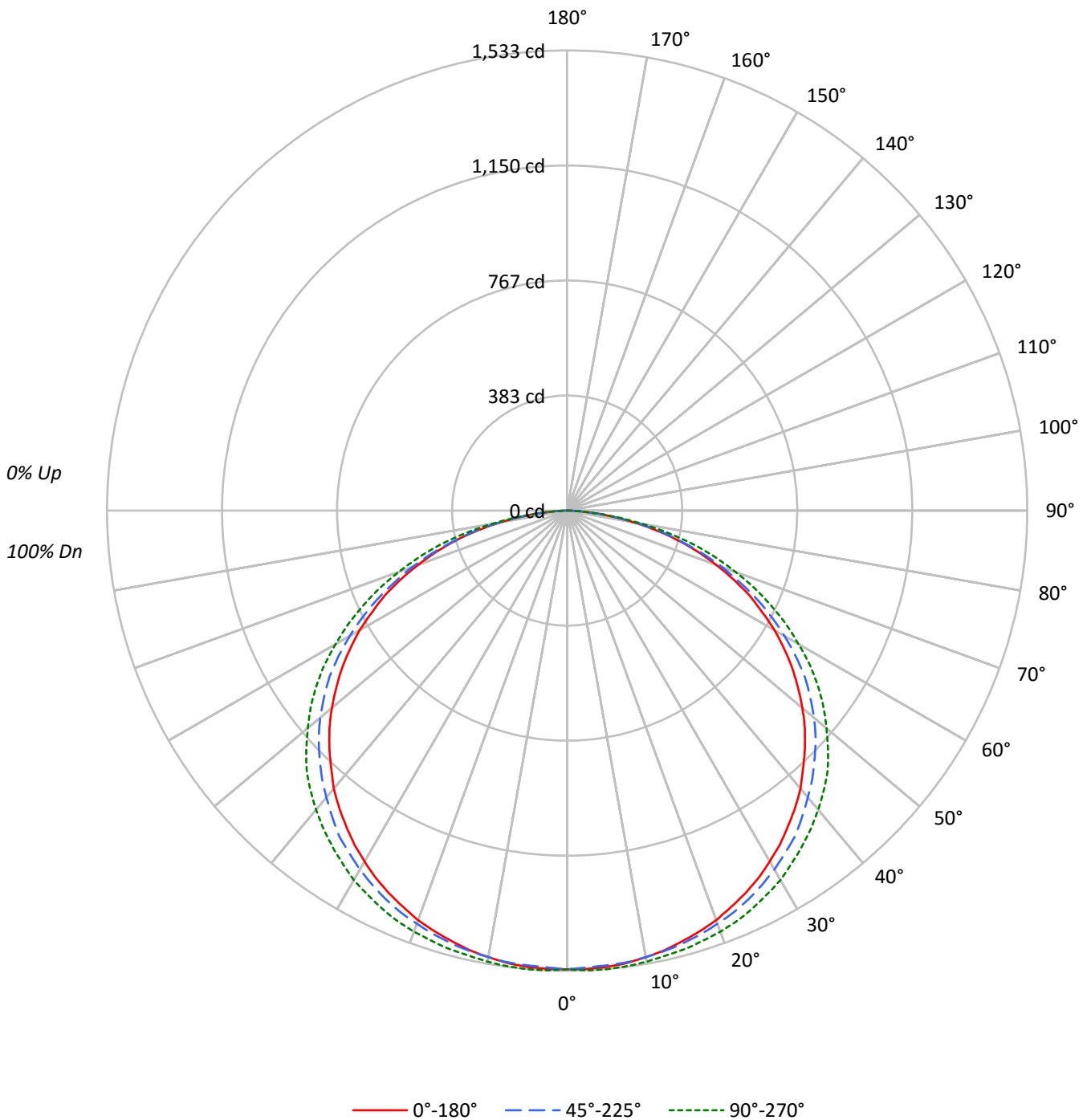
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5150	5150	5150
5°	5161	5144	5187
10°	5168	5168	5221
15°	5180	5207	5278
20°	5206	5251	5352
25°	5227	5312	5436
30°	5251	5371	5530
35°	5279	5447	5615
40°	5320	5488	5724
45°	5338	5556	5848
50°	5363	5631	5912
55°	5381	5681	5996
60°	5382	5640	6001
65°	5350	5553	5981
70°	5203	5405	5882
75°	4982	5049	5680
80°	4356	4455	4950
85°	3255	3255	3058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	2.9
10°-20°	423.3	8.4
20°-30°	660.7	13.1
30°-40°	828.7	16.4
40°-50°	903.2	17.9
50°-60°	863.0	17.1
60°-70°	695.3	13.8
70°-80°	421.2	8.4
80°-90°	102.9	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°	1229.4	24.4
0°-40°	2058.1	40.8
0°-60°	3824.3	75.8
0°-90°	5043.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5043.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1526	1528	1521	1531	1533	145
15°	1485	1490	1493	1508	1513	420
25°	1406	1411	1429	1452	1462	648
35°	1283	1296	1324	1352	1365	804
45°	1120	1138	1166	1207	1227	864
55°	916	936	967	1003	1021	818
65°	671	681	696	730	750	660
75°	383	388	388	418	436	401
85°	84	82	84	82	79	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1528.3	1528.3	1523.2	1530.9	1533.4
5°	1525.8	1528.3	1520.7	1530.9	1533.4
7.5°	1520.7	1520.7	1518.1	1525.8	1530.9
10°	1510.5	1513.0	1510.5	1520.7	1525.8
12.5°	1500.3	1502.8	1502.8	1515.6	1518.1
15°	1484.9	1490.0	1492.6	1507.9	1513.0
17.5°	1469.6	1474.7	1479.8	1497.7	1502.8
20°	1451.8	1459.4	1464.5	1484.9	1492.6
22.5°	1428.8	1436.5	1449.2	1469.6	1479.8
25°	1405.8	1410.9	1428.8	1451.8	1462.0
27.5°	1380.3	1388.0	1405.8	1431.4	1441.6
30°	1349.7	1362.5	1380.3	1408.4	1421.2
32.5°	1319.1	1331.9	1352.3	1380.3	1393.1
35°	1283.4	1296.1	1324.2	1352.3	1365.0
37.5°	1247.7	1260.4	1285.9	1319.1	1334.4
40°	1209.4	1222.1	1247.7	1285.9	1301.2
42.5°	1163.5	1181.3	1209.4	1247.7	1265.5
45°	1120.1	1137.9	1166.0	1206.8	1227.2
47.5°	1074.2	1092.0	1122.6	1163.5	1178.8
50°	1023.1	1041.0	1074.2	1112.4	1127.7
52.5°	969.5	992.5	1020.6	1058.9	1076.7
55°	916.0	936.4	967.0	1002.7	1020.6
57.5°	857.3	872.6	903.2	938.9	959.3
60°	798.6	811.4	836.9	872.6	890.5
62.5°	732.3	747.6	768.0	803.7	824.1
65°	671.0	681.2	696.5	729.7	750.1
67.5°	599.6	607.2	620.0	658.3	676.1
70°	528.1	538.4	548.6	581.7	597.0
72.5°	456.7	464.4	469.5	497.5	517.9
75°	382.7	387.8	387.8	418.4	436.3
77.5°	303.6	306.2	313.8	334.2	344.4
80°	224.5	232.2	229.6	244.9	255.1
82.5°	150.5	150.5	150.5	158.2	163.3
85°	84.2	81.6	84.2	81.6	79.1
87.5°	28.1	33.2	23.0	17.9	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)