

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: P213098

Luminaire Tested: **DSI-WD-50L830-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213098
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-50L830-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 4.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4815.5 lumens
Efficiency: N/A
Efficacy: 127.4 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

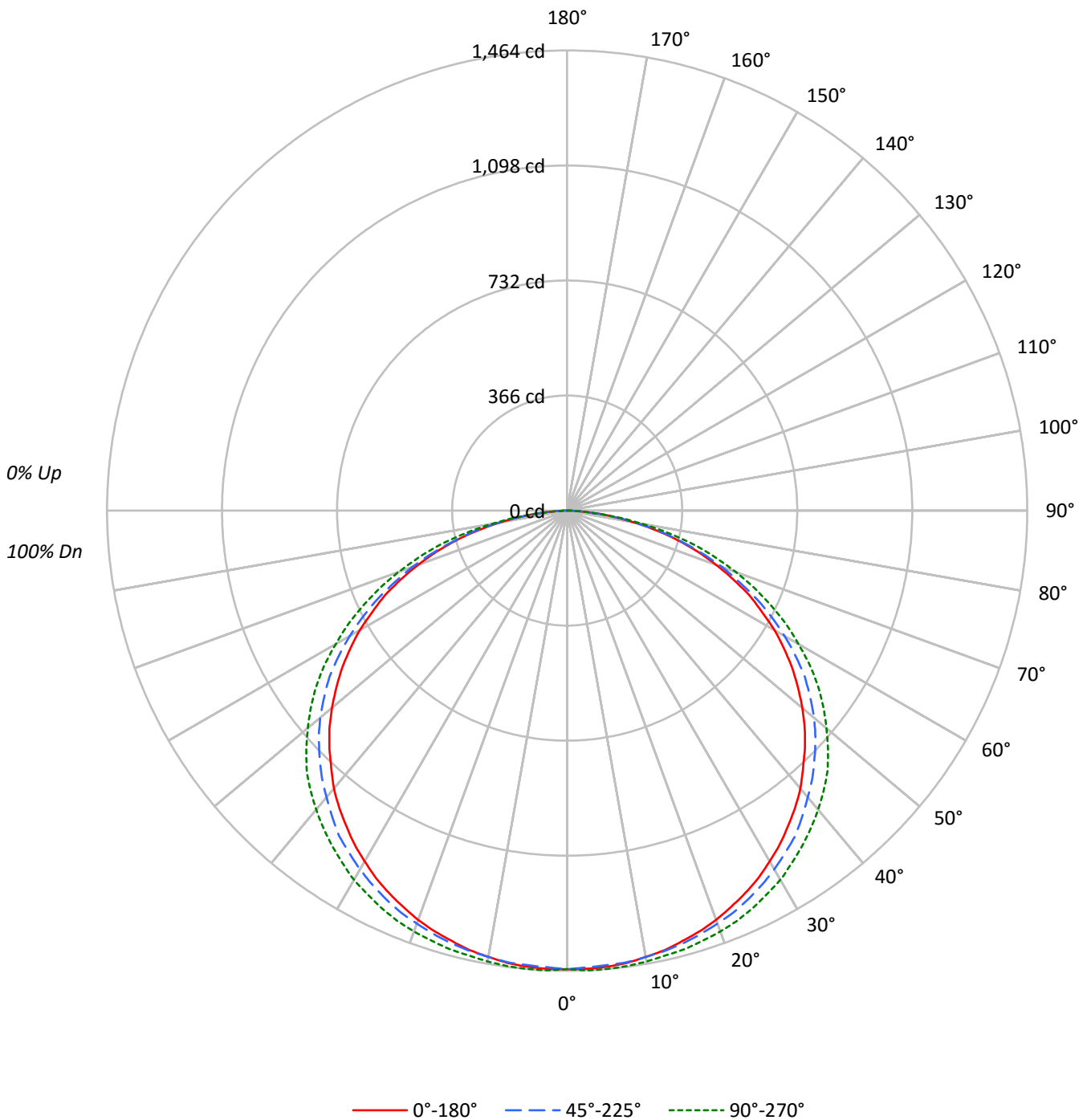
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4917	4917	4917
5°	4927	4911	4952
10°	4934	4934	4984
15°	4946	4971	5039
20°	4970	5014	5110
25°	4990	5072	5189
30°	5014	5128	5279
35°	5040	5201	5361
40°	5079	5240	5464
45°	5096	5305	5584
50°	5121	5376	5644
55°	5137	5423	5724
60°	5139	5385	5729
65°	5108	5302	5710
70°	4967	5159	5616
75°	4757	4821	5422
80°	4160	4253	4727
85°	3108	3108	2919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	2.9
10°-20°	404.1	8.4
20°-30°	630.8	13.1
30°-40°	791.2	16.4
40°-50°	862.3	17.9
50°-60°	823.9	17.1
60°-70°	663.9	13.8
70°-80°	402.2	8.4
80°-90°	98.3	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°	1173.8	24.4
0°-40°	1965.0	40.8
0°-60°	3651.2	75.8
0°-90°	4815.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1457	1459	1452	1462	1464	139
15°	1418	1423	1425	1440	1444	401
25°	1342	1347	1364	1386	1396	619
35°	1225	1238	1264	1291	1303	767
45°	1069	1086	1113	1152	1172	825
55°	874	894	923	957	974	781
65°	641	650	665	697	716	630
75°	365	370	370	400	416	383
85°	80	78	80	78	76	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.1	1459.1	1459.1	1459.1	1459.1
2.5°	1459.1	1459.1	1454.3	1461.6	1464.0
5°	1456.7	1459.1	1451.8	1461.6	1464.0
7.5°	1451.8	1451.8	1449.4	1456.7	1461.6
10°	1442.1	1444.5	1442.1	1451.8	1456.7
12.5°	1432.3	1434.8	1434.8	1447.0	1449.4
15°	1417.7	1422.6	1425.0	1439.7	1444.5
17.5°	1403.1	1408.0	1412.9	1429.9	1434.8
20°	1386.1	1393.4	1398.2	1417.7	1425.0
22.5°	1364.1	1371.4	1383.6	1403.1	1412.9
25°	1342.2	1347.1	1364.1	1386.1	1395.8
27.5°	1317.9	1325.2	1342.2	1366.6	1376.3
30°	1288.6	1300.8	1317.9	1344.6	1356.8
32.5°	1259.4	1271.6	1291.1	1317.9	1330.0
35°	1225.3	1237.5	1264.3	1291.1	1303.2
37.5°	1191.2	1203.4	1227.7	1259.4	1274.0
40°	1154.6	1166.8	1191.2	1227.7	1242.3
42.5°	1110.8	1127.8	1154.6	1191.2	1208.2
45°	1069.4	1086.4	1113.2	1152.2	1171.7
47.5°	1025.5	1042.6	1071.8	1110.8	1125.4
50°	976.8	993.9	1025.5	1062.1	1076.7
52.5°	925.7	947.6	974.4	1010.9	1028.0
55°	874.5	894.0	923.2	957.3	974.4
57.5°	818.5	833.1	862.3	896.4	915.9
60°	762.5	774.6	799.0	833.1	850.1
62.5°	699.1	713.7	733.2	767.3	786.8
65°	640.7	650.4	665.0	696.7	716.2
67.5°	572.4	579.8	591.9	628.5	645.5
70°	504.2	514.0	523.7	555.4	570.0
72.5°	436.0	443.3	448.2	475.0	494.5
75°	365.4	370.3	370.3	399.5	416.5
77.5°	289.9	292.3	299.6	319.1	328.9
80°	214.4	221.7	219.2	233.9	243.6
82.5°	143.7	143.7	143.7	151.0	155.9
85°	80.4	78.0	80.4	78.0	75.5
87.5°	26.8	31.7	21.9	17.1	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)