

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: P213042

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213042
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-50L830-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 4.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4673.3 lumens
Efficiency: N/A
Efficacy: 123.6 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

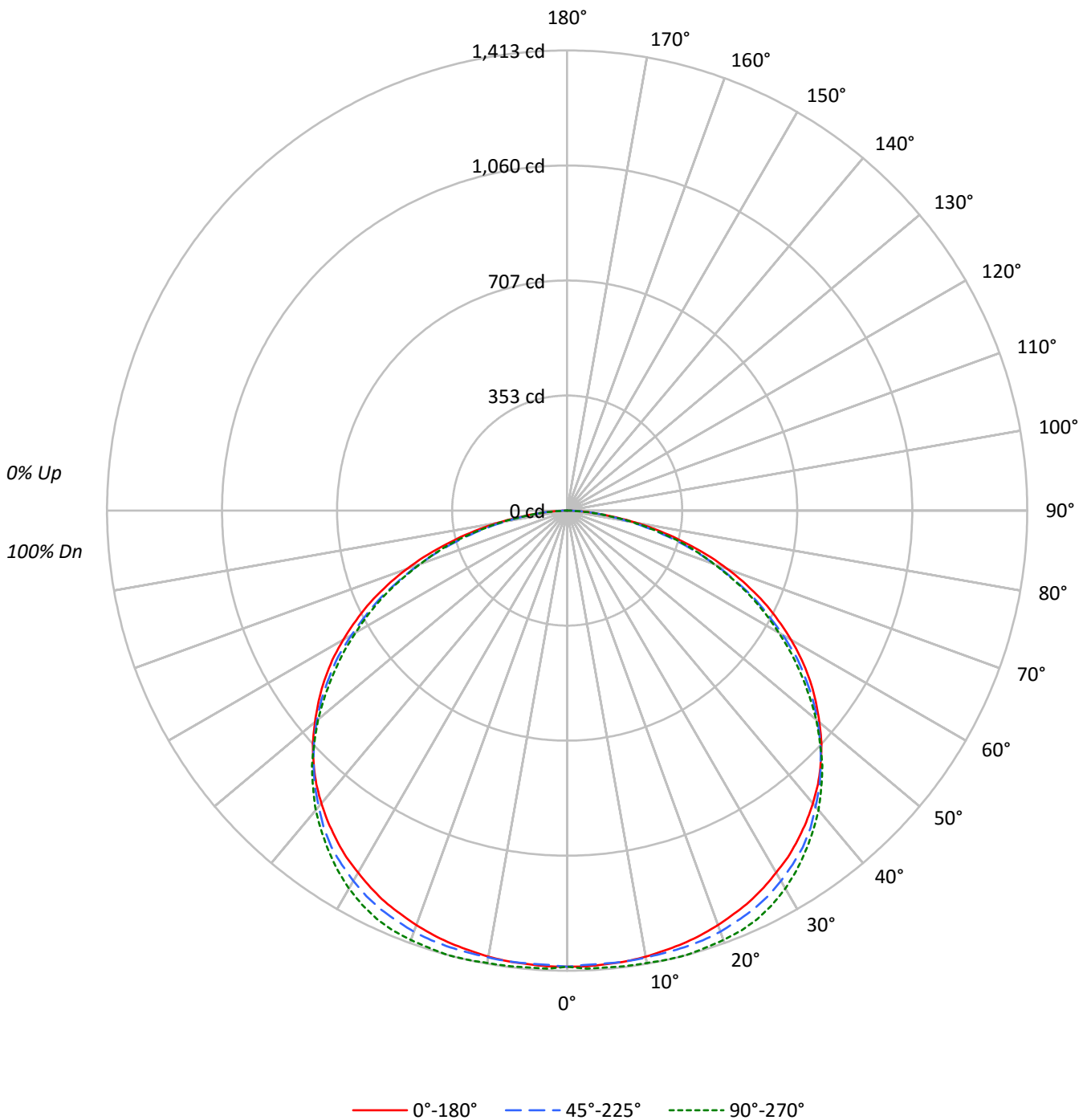
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4720	4720	4720
5°	4729	4721	4762
10°	4759	4768	4826
15°	4801	4844	4929
20°	4857	4935	5031
25°	4927	5027	5144
30°	4995	5109	5213
35°	5080	5190	5250
40°	5164	5218	5282
45°	5247	5247	5282
50°	5299	5261	5235
55°	5352	5238	5152
60°	5352	5155	5056
65°	5322	5030	4953
70°	5159	4752	4728
75°	4788	4344	4503
80°	4160	3733	3924
85°	3016	2919	3016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	2.9
10°-20°	394.0	8.4
20°-30°	624.4	13.4
30°-40°	787.6	16.9
40°-50°	850.8	18.2
50°-60°	798.0	17.1
60°-70°	628.4	13.4
70°-80°	365.7	7.8
80°-90°	90.8	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°	1152.1	24.7
0°-40°	1939.7	41.5
0°-60°	3588.4	76.8
0°-90°	4673.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4673.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1398	1401	1396	1406	1408	133
15°	1376	1381	1388	1406	1413	389
25°	1325	1335	1352	1374	1384	611
35°	1235	1245	1262	1274	1276	773
45°	1101	1104	1101	1106	1108	849
55°	911	909	892	882	877	812
65°	668	655	631	624	621	657
75°	368	356	334	341	346	390
85°	78	78	76	78	78	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1400.7	1400.7	1395.8	1403.1	1408.0
5°	1398.2	1400.7	1395.8	1405.5	1408.0
7.5°	1395.8	1395.8	1395.8	1405.5	1410.4
10°	1390.9	1393.4	1393.4	1408.0	1410.4
12.5°	1383.6	1388.5	1390.9	1405.5	1412.9
15°	1376.3	1381.2	1388.5	1405.5	1412.9
17.5°	1366.6	1373.9	1383.6	1403.1	1408.0
20°	1354.4	1361.7	1376.3	1398.2	1403.1
22.5°	1339.8	1352.0	1364.1	1386.1	1395.8
25°	1325.2	1334.9	1352.0	1373.9	1383.6
27.5°	1305.7	1317.8	1334.9	1354.4	1364.1
30°	1283.7	1298.4	1313.0	1334.9	1339.8
32.5°	1261.8	1274.0	1288.6	1305.7	1310.5
35°	1235.0	1244.8	1261.8	1274.0	1276.4
37.5°	1205.8	1215.5	1227.7	1237.5	1239.9
40°	1174.1	1181.4	1186.3	1196.1	1200.9
42.5°	1140.0	1144.9	1147.3	1152.2	1154.6
45°	1101.0	1103.5	1101.0	1105.9	1108.4
47.5°	1059.6	1059.6	1054.8	1054.8	1052.3
50°	1010.9	1010.9	1003.6	998.7	998.7
52.5°	962.2	962.2	950.0	942.7	937.8
55°	911.0	908.6	891.6	881.8	876.9
57.5°	855.0	850.1	833.1	818.5	816.0
60°	794.1	786.8	764.9	755.1	750.3
62.5°	730.8	721.0	696.7	689.4	686.9
65°	667.5	655.3	630.9	623.6	621.2
67.5°	596.8	582.2	555.4	550.5	550.5
70°	523.7	506.7	482.3	482.3	479.9
72.5°	448.2	433.6	409.2	414.1	414.1
75°	367.8	355.6	333.7	341.0	345.9
77.5°	292.3	272.8	263.1	270.4	270.4
80°	214.4	202.2	192.4	194.9	202.2
82.5°	138.8	134.0	129.1	131.5	131.5
85°	78.0	78.0	75.5	78.0	78.0
87.5°	34.1	34.1	24.4	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)