

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: P213051

Luminaire Tested: **DSI-WS-40L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213051
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-40L840-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 3.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.5 lumens
Efficiency: N/A
Efficacy: 130.9 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

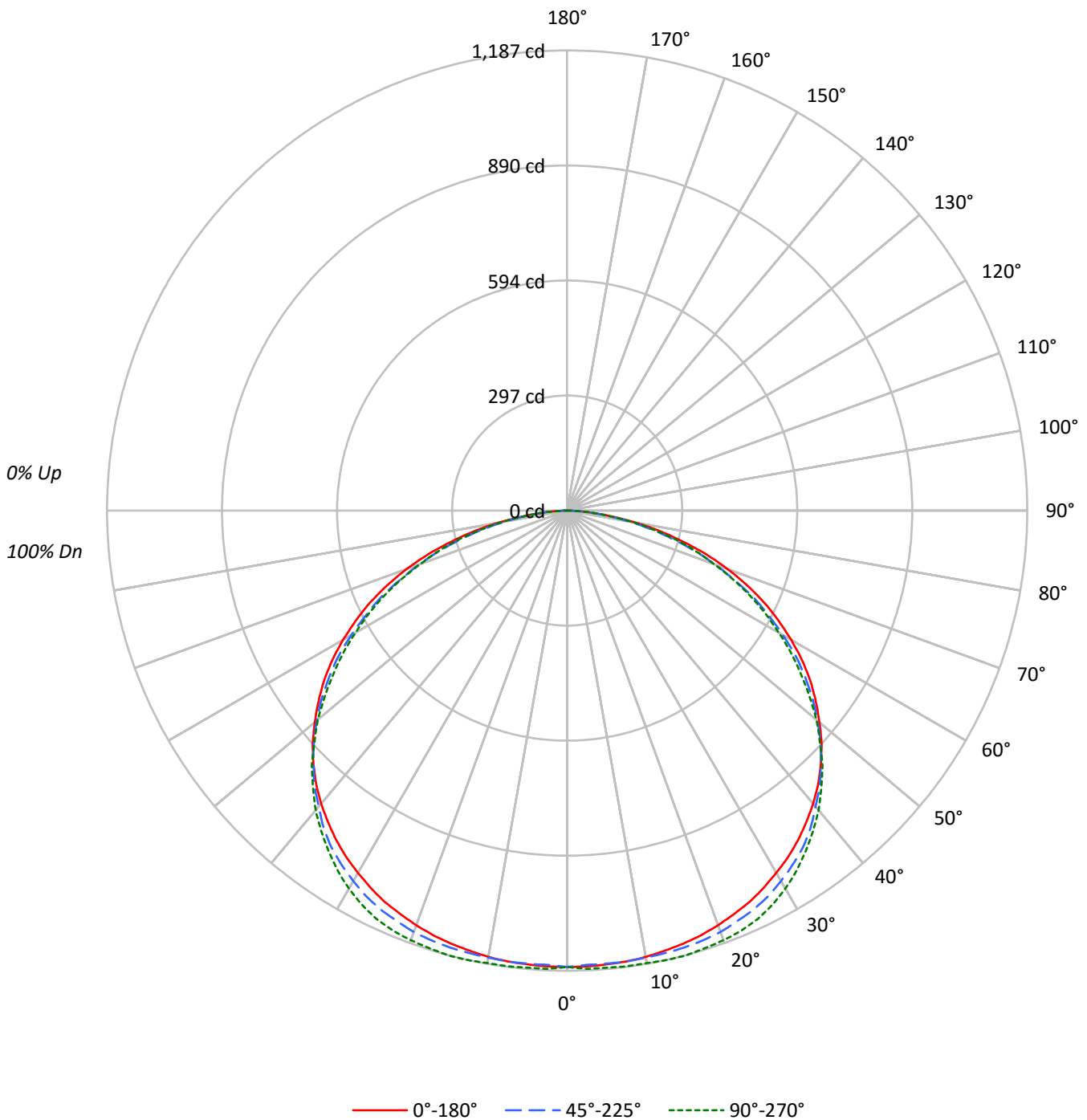
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3966	3966	3966
5°	3975	3968	4002
10°	4000	4007	4056
15°	4035	4071	4142
20°	4081	4148	4228
25°	4141	4224	4323
30°	4198	4293	4381
35°	4269	4362	4413
40°	4341	4385	4440
45°	4409	4409	4439
50°	4454	4421	4400
55°	4498	4402	4330
60°	4498	4332	4249
65°	4472	4227	4162
70°	4336	3993	3973
75°	4024	3652	3785
80°	3497	3138	3297
85°	2532	2455	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	2.9
10°-20°	331.1	8.4
20°-30°	524.7	13.4
30°-40°	661.9	16.9
40°-50°	715.0	18.2
50°-60°	670.6	17.1
60°-70°	528.1	13.4
70°-80°	307.3	7.8
80°-90°	76.3	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°	968.2	24.7
0°-40°	1630.1	41.5
0°-60°	3015.7	76.8
0°-90°	3927.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1175	1177	1173	1181	1183	112
15°	1157	1161	1167	1181	1187	327
25°	1114	1122	1136	1155	1163	514
35°	1038	1046	1060	1071	1073	650
45°	925	927	925	929	932	713
55°	766	764	749	741	737	683
65°	561	551	530	524	522	552
75°	309	299	280	287	291	327
85°	66	66	64	66	66	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1177.1	1177.1	1173.0	1179.2	1183.3
5°	1175.1	1177.1	1173.0	1181.2	1183.3
7.5°	1173.0	1173.0	1173.0	1181.2	1185.3
10°	1169.0	1171.0	1171.0	1183.3	1185.3
12.5°	1162.8	1166.9	1169.0	1181.2	1187.4
15°	1156.7	1160.8	1166.9	1181.2	1187.4
17.5°	1148.5	1154.6	1162.8	1179.2	1183.3
20°	1138.2	1144.4	1156.7	1175.1	1179.2
22.5°	1126.0	1136.2	1146.4	1164.9	1173.0
25°	1113.7	1121.9	1136.2	1154.6	1162.8
27.5°	1097.3	1107.5	1121.9	1138.2	1146.4
30°	1078.9	1091.2	1103.4	1121.9	1126.0
32.5°	1060.4	1070.7	1083.0	1097.3	1101.4
35°	1037.9	1046.1	1060.4	1070.7	1072.7
37.5°	1013.4	1021.6	1031.8	1040.0	1042.0
40°	986.8	992.9	997.0	1005.2	1009.3
42.5°	958.1	962.2	964.2	968.3	970.4
45°	925.3	927.4	925.3	929.4	931.5
47.5°	890.5	890.5	886.4	886.4	884.4
50°	849.6	849.6	843.4	839.4	839.4
52.5°	808.6	808.6	798.4	792.3	788.2
55°	765.7	763.6	749.3	741.1	737.0
57.5°	718.6	714.5	700.1	687.9	685.8
60°	667.4	661.2	642.8	634.6	630.5
62.5°	614.2	606.0	585.5	579.4	577.3
65°	560.9	550.7	530.2	524.1	522.0
67.5°	501.6	489.3	466.8	462.7	462.7
70°	440.1	425.8	405.3	405.3	403.3
72.5°	376.7	364.4	343.9	348.0	348.0
75°	309.1	298.9	280.5	286.6	290.7
77.5°	245.7	229.3	221.1	227.2	227.2
80°	180.2	169.9	161.7	163.8	169.9
82.5°	116.7	112.6	108.5	110.5	110.5
85°	65.5	65.5	63.5	65.5	65.5
87.5°	28.7	28.7	20.5	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)