

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: SHAPER

Report Number: P34169

Luminaire Tested: **749-P1S-L1/835**

Test Date: 05/18/15

Test Information

Test Method: LM-79-08
Report Number: P34169
Test Lab: INNOVATION CENTER-P3
Test Date: 05/18/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 749-P1S-L1/835
Description: SHAPER PENDANT LUMINAIRE.
Light Source: NA
Ballast/Driver: NA

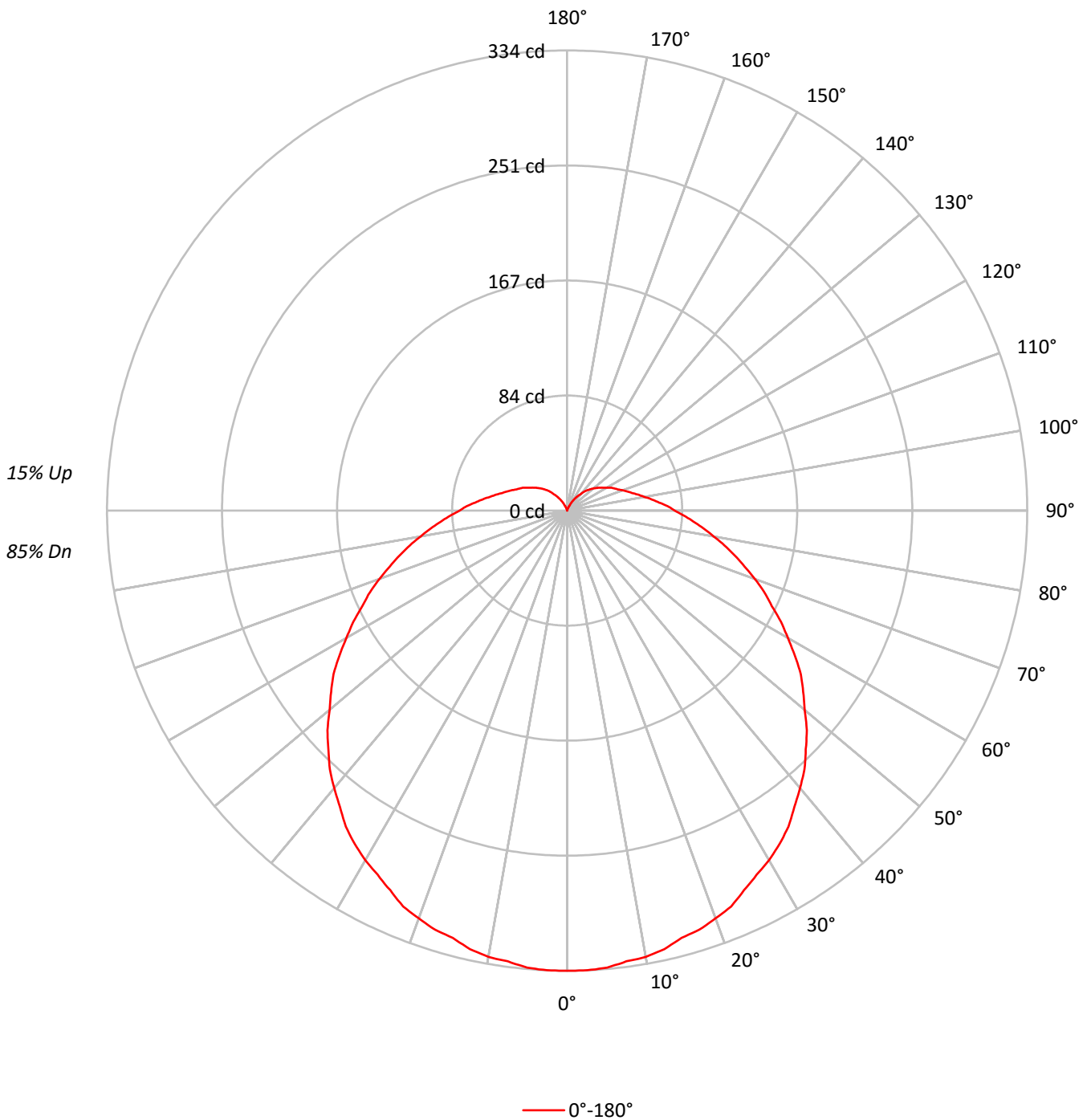
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1425.4 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 0.42' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 16.6
Input Voltage (V): 120.1
Input Current (Ain): 0.140
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.01
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
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	115	115	115	115	111	111	111	111	103	103	103		95	95	95		88	88	88	85
1	102	97	91	87	98	93	88	84	86	82	78		79	76	73		73	71	68	65
2	92	83	75	68	88	80	72	66	73	68	63		68	63	59		63	59	55	52
3	83	72	63	56	80	69	61	54	64	57	51		59	53	49		55	50	46	43
4	76	63	54	47	72	61	52	45	56	49	43		52	46	41		48	43	39	36
5	70	56	47	40	66	54	45	39	50	43	37		47	40	35		43	38	33	31
6	64	50	41	34	61	48	40	33	45	38	32		42	35	30		39	33	29	27
7	59	45	36	30	57	44	35	29	41	33	28		38	32	27		36	30	26	23
8	55	41	32	26	53	40	32	26	37	30	25		35	28	24		33	27	23	21
9	51	38	29	24	49	37	29	23	34	27	22		32	26	21		30	25	20	18
10	48	35	27	21	46	34	26	21	32	25	20		30	24	19		28	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26366
5°	24996
10°	23711
15°	22411
20°	21484
25°	20418
30°	19530
35°	18664
40°	17665
45°	16712
50°	15712
55°	14922
60°	13891
65°	12952
70°	12174
75°	11384
80°	10649
85°	10068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	2.2
10°-20°	91.1	6.4
20°-30°	140.5	9.9
30°-40°	174.9	12.3
40°-50°	189.3	13.3
50°-60°	184.5	12.9
60°-70°	163.3	11.5
70°-80°	133.3	9.4
80°-90°	100.9	7.1
90°-100°	73.5	5.2
100°-110°	52.4	3.7
110°-120°	37.8	2.7
120°-130°	26.1	1.8
130°-140°	16.3	1.1
140°-150°	7.6	0.5
150°-160°	2.2	0.2
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	263.2	18.5
0°-40°	438.1	30.7
0°-60°	811.9	57.0
0°-90°	1209.3	84.8
90°-120°	163.7	11.5
90°-150°	213.7	15.0
90°-180°	216.0	15.2
0°-180°	1425.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	334	
5°	333	32
15°	321	91
25°	304	141
35°	280	175
45°	245	189
55°	207	184
65°	164	163
75°	126	133
85°	92	79
90°	78	43
95°	67	53
105°	49	52
115°	38	38
125°	29	26
135°	21	16
145°	12	8
155°	4	2
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	334
2.5°	334
5°	333
7.5°	330
10°	329
12.5°	326
15°	321
17.5°	319
20°	315
22.5°	311
25°	304
27.5°	298
30°	293
32.5°	287
35°	280
37.5°	271
40°	263
42.5°	255
45°	245
47.5°	236
50°	225
52.5°	216
55°	207
57.5°	196
60°	185
62.5°	175
65°	164
67.5°	155
70°	145
72.5°	135
75°	126
77.5°	117
80°	108
82.5°	100
85°	92
87.5°	85
90°	78
92.5°	73
95°	67
97.5°	62
100°	57
102.5°	53
105°	49
107.5°	46
110°	43



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	40
115°	38
117.5°	36
120°	33
122.5°	31
125°	29
127.5°	27
130°	25
132.5°	23
135°	21
137.5°	19
140°	16
142.5°	14
145°	12
147.5°	10
150°	8
152.5°	6
155°	4
157.5°	3
160°	2
162.5°	1
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)