

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: P34032

Luminaire Tested: **145-36-P1S-L9/835**

Test Date: 04/27/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34032  
Test Lab: INNOVATION CENTER-P2  
Test Date: 04/27/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 145-36-P1S-L9/835  
Description: SHAPER 145 FABRIQUE INVERTED CONICAL PENDANT LUMINAIRE WITH SHANTUNG WHITE SHADE. THDi: 10.2%, PF:.99319; PREBURN: 12 HR, TOTAL OP TIME: 13 HR, STAB: 30 MIN  
Light Source: (66) 3500K EATON LEDS  
12451476, 12441843  
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER (1) ROAL ELECTRONIC DRIVER  
LC60-2400Z-UNV-F, RSLD035-07

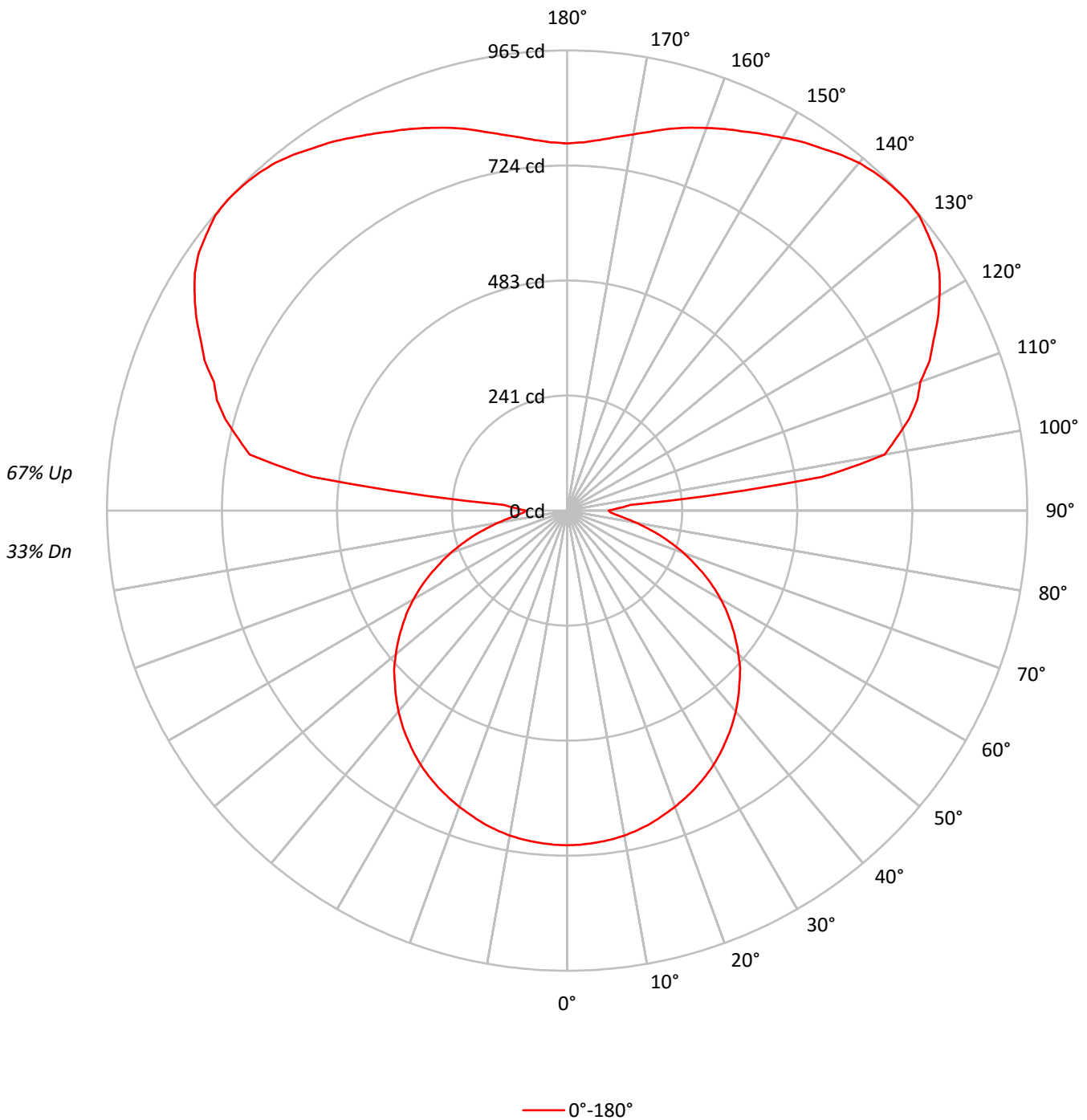
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7161.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.44  
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 78.5  
Input Voltage (V): 120.0  
Input Current (Ain): 0.661  
Voltage Rise (V): NR  
Power Factor: 0.9932  
Total Harmonic Distortion (THDi): 10.2  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 24.9  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	93	89	85	81	84	80	77	73	63	61	59	48	47	45	34	33	33	26
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	30	28	27	21
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	26	24	22	18
4	70	59	51	45	63	54	47	41	43	38	34	33	29	26	23	21	19	15
5	64	53	44	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	20	19	16	14	11
7	54	42	34	29	49	38	31	26	31	25	22	24	20	17	17	14	13	10
8	50	38	30	25	45	35	28	23	28	23	19	21	18	15	16	13	11	9
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10	8
10	44	32	25	20	39	29	22	18	23	18	15	18	15	12	13	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1069
5°	1030
10°	996
15°	961
20°	928
25°	898
30°	869
35°	837
40°	806
45°	773
50°	738
55°	698
60°	653
65°	598
70°	534
75°	460
80°	378
85°	311



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	0.9
10°-20°	191.7	2.7
20°-30°	295.3	4.1
30°-40°	365.8	5.1
40°-50°	394.8	5.5
50°-60°	377.4	5.3
60°-70°	313.5	4.4
70°-80°	213.4	3.0
80°-90°	118.6	1.7
90°-100°	315.3	4.4
100°-110°	780.3	10.9
110°-120°	841.3	11.7
120°-130°	841.6	11.8
130°-140°	744.5	10.4
140°-150°	583.8	8.2
150°-160°	407.0	5.7
160°-170°	235.5	3.3
170°-180°	75.1	1.0
0°-30°	553.5	7.7
0°-40°	919.3	12.8
0°-60°	1691.6	23.6
0°-90°	2337.0	32.6
90°-120°	1936.9	27.0
90°-150°	4106.7	57.3
90°-180°	4824.0	67.4
0°-180°	7161.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	702	
5°	699	67
15°	679	192
25°	640	295
35°	584	366
45°	511	395
55°	422	377
65°	317	313
75°	202	213
85°	104	94
90°	87	51
95°	133	289
105°	742	780
115°	848	841
125°	943	842
135°	963	744
145°	928	584
155°	877	407
165°	829	236
175°	780	75
180°	770	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	702
2.5°	701
5°	699
7.5°	696
10°	692
12.5°	686
15°	679
17.5°	670
20°	661
22.5°	651
25°	640
27.5°	628
30°	615
32.5°	600
35°	584
37.5°	568
40°	550
42.5°	531
45°	511
47.5°	492
50°	469
52.5°	446
55°	422
57.5°	398
60°	372
62.5°	345
65°	317
67.5°	288
70°	260
72.5°	230
75°	202
77.5°	173
80°	147
82.5°	123
85°	104
87.5°	91
90°	87
92.5°	106
95°	133
97.5°	169
100°	202
102.5°	230
105°	252
107.5°	269
110°	288



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	823
115°	848
117.5°	877
120°	902
122.5°	926
125°	943
127.5°	953
130°	963
132.5°	965
135°	963
137.5°	959
140°	952
142.5°	941
145°	928
147.5°	917
150°	903
152.5°	890
155°	877
157.5°	866
160°	854
162.5°	842
165°	829
167.5°	814
170°	801
172.5°	790
175°	780
177.5°	773
180°	770

(END OF REPORT)