

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: P34244

Luminaire Tested: **150-24-PSJCAC-L1/835-UNV-SWH**

Test Date: 06/24/15

Test Information

Test Method: LM-79-08
Report Number: P34244
Test Lab: INNOVATION CENTER-P3
Test Date: 06/24/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 150-24-PSJCAC-L1/835-UNV-SWH
Description: SHAPER 150 WITH WHITE SHADE.
Light Source: (1) COOPER LIGHTING LEDS
12519000
Ballast/Driver: (1) ROAL ELECTRONIC DRIVER
ML56 DL ENGINE

Summary

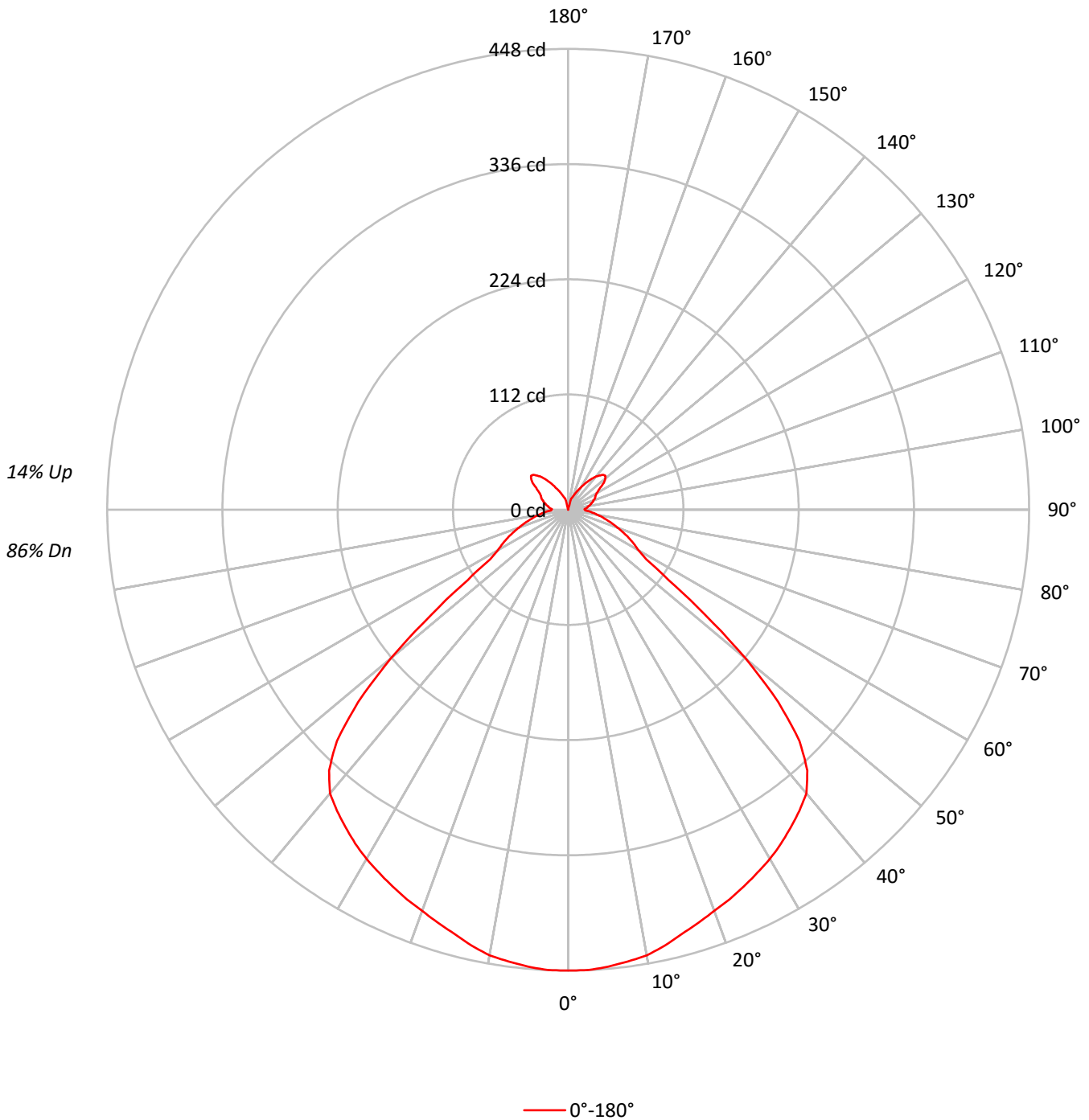
Lumens per Lamp: N/A
Luminaire Lumens: 1246.5 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.42
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 1')
CIE Type: Semi-Direct

Input Watts (W): 16.8
Input Voltage (V): 120.0
Input Current (Ain): 0.140
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.05
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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	107	102	99	95	103	99	95	92	92	89	87	86	84	82	80	78	77	74
2	98	91	85	80	94	88	82	78	82	78	74	77	73	70	72	69	67	64
3	90	81	74	68	87	78	72	66	73	68	63	69	64	61	65	61	58	55
4	83	72	65	59	80	70	63	57	66	60	55	62	57	53	59	54	51	48
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	49	45	43
6	71	59	51	45	69	57	50	44	54	48	43	51	46	41	49	44	40	38
7	66	54	46	40	64	52	45	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	36	59	48	40	35	45	39	34	43	37	33	41	36	32	30
9	58	45	37	32	56	44	37	32	42	35	31	40	34	30	38	33	29	27
10	54	42	34	29	52	41	34	29	39	32	28	37	31	27	35	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1535
5°	1453
10°	1376
15°	1294
20°	1228
25°	1178
30°	1134
35°	1091
40°	1050
45°	941
50°	682
55°	372
60°	257
65°	223
70°	186
75°	153
80°	124
85°	100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.4
10°-20°	120.8	9.7
20°-30°	186.6	15.0
30°-40°	236.3	19.0
40°-50°	237.0	19.0
50°-60°	117.1	9.4
60°-70°	64.3	5.2
70°-80°	41.7	3.3
80°-90°	23.3	1.9
90°-100°	19.4	1.6
100°-110°	24.6	2.0
110°-120°	28.8	2.3
120°-130°	35.2	2.8
130°-140°	36.2	2.9
140°-150°	21.5	1.7
150°-160°	9.0	0.7
160°-170°	2.4	0.2
170°-180°	0.0	0.0
0°-30°	349.8	28.1
0°-40°	586.1	47.0
0°-60°	940.2	75.4
0°-90°	1069.6	85.8
90°-120°	72.7	5.8
90°-150°	165.5	13.3
90°-180°	177.0	14.2
0°-180°	1246.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	448	
5°	446	42
15°	427	121
25°	404	187
35°	377	236
45°	318	237
55°	119	117
65°	65	64
75°	39	42
85°	21	19
90°	16	9
95°	18	15
105°	23	25
115°	29	29
125°	39	35
135°	48	36
145°	34	21
155°	19	9
165°	11	2
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	448
2.5°	448
5°	446
7.5°	443
10°	440
12.5°	434
15°	427
17.5°	421
20°	415
22.5°	410
25°	404
27.5°	398
30°	392
32.5°	385
35°	377
37.5°	369
40°	360
42.5°	344
45°	318
47.5°	277
50°	225
52.5°	167
55°	119
57.5°	90
60°	79
62.5°	72
65°	65
67.5°	58
70°	51
72.5°	45
75°	39
77.5°	34
80°	29
82.5°	25
85°	21
87.5°	17
90°	16
92.5°	16
95°	18
97.5°	19
100°	20
102.5°	22
105°	23
107.5°	25
110°	26



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	28
115°	29
117.5°	30
120°	32
122.5°	35
125°	39
127.5°	44
130°	47
132.5°	49
135°	48
137.5°	45
140°	42
142.5°	38
145°	34
147.5°	30
150°	25
152.5°	22
155°	19
157.5°	16
160°	14
162.5°	12
165°	11
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)