

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: P34246

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

Test Date: 06/25/15

Test Information

Test Method: LM-79-08
Report Number: P34246
Test Lab: INNOVATION CENTER-P3
Test Date: 06/25/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 150-24-PSJCAC-L1/835-UNV-POPY
Description: SHAPER 150 WITH POPY SHADE.
Light Source: (1) COOPER LIGHTING LEDS
12519000
Ballast/Driver: (1) ROAL ELECTRONIC DRIVER
ML56 DL ENGINE

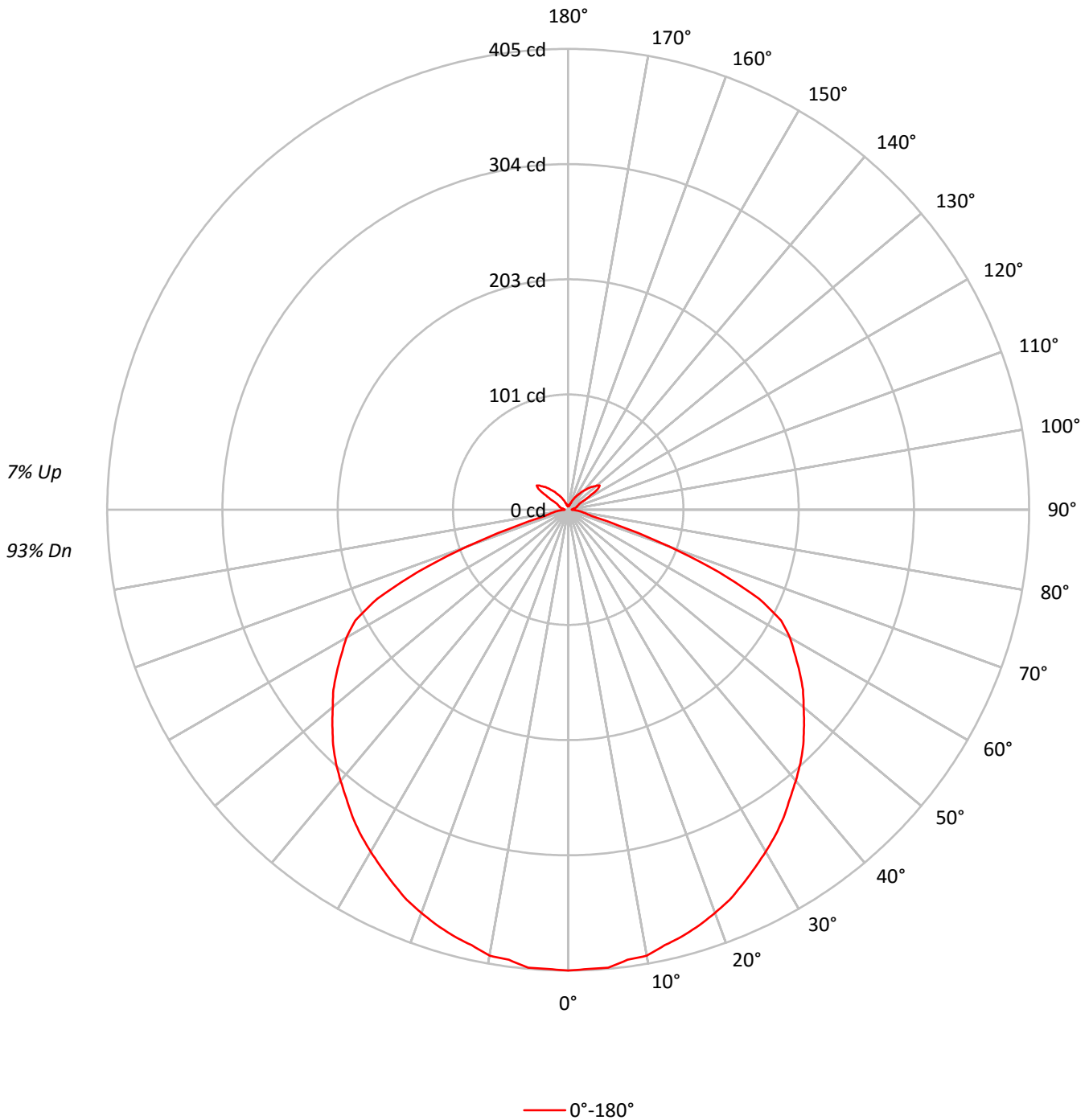
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1270.7 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 0.75')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120.0
Input Current (Ain): 0.138
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.30
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT

TEST NUMBER: P34246
CATALOG NUMBER: 150-24-PSJCAC-L1/835-UNV-POPY

Luminous Intensity Polar Plot





TEST NUMBER: P34246

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	108	104	100	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	98	91	84	79	95	88	82	77	84	79	74	79	75	72	75	72	69	67
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	66	62	58	56
4	82	70	61	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	53	47	43	41
6	69	56	47	41	67	55	46	40	52	45	39	50	43	39	48	42	38	35
7	64	51	42	36	62	49	41	35	47	40	35	45	39	34	43	38	33	31
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1388
5°	1334
10°	1277
15°	1220
20°	1171
25°	1122
30°	1076
35°	1034
40°	993
45°	958
50°	917
55°	881
60°	844
65°	741
70°	407
75°	100
80°	69
85°	43



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.0
10°-20°	109.6	8.6
20°-30°	167.5	13.2
30°-40°	206.5	16.3
40°-50°	225.2	17.7
50°-60°	222.0	17.5
60°-70°	172.5	13.6
70°-80°	35.8	2.8
80°-90°	7.9	0.6
90°-100°	4.1	0.3
100°-110°	7.3	0.6
110°-120°	10.3	0.8
120°-130°	25.4	2.0
130°-140°	21.5	1.7
140°-150°	11.0	0.9
150°-160°	4.3	0.3
160°-170°	1.3	0.1
170°-180°	0.3	0.0
0°-30°	315.3	24.8
0°-40°	521.9	41.1
0°-60°	969.1	76.3
0°-90°	1185.3	93.3
90°-120°	21.6	1.7
90°-150°	79.5	6.3
90°-180°	85.0	6.7
0°-180°	1270.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	405	
5°	404	38
15°	388	110
25°	363	167
35°	330	207
45°	292	225
55°	248	222
65°	185	173
75°	21	36
85°	7	7
90°	3	2
95°	4	3
105°	7	7
115°	10	10
125°	32	25
135°	28	22
145°	17	11
155°	9	4
165°	4	1
175°	3	0
180°	4	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	405
2.5°	404
5°	404
7.5°	399
10°	398
12.5°	392
15°	388
17.5°	383
20°	377
22.5°	371
25°	363
27.5°	355
30°	347
32.5°	339
35°	330
37.5°	320
40°	311
42.5°	302
45°	292
47.5°	281
50°	270
52.5°	260
55°	248
57.5°	236
60°	225
62.5°	211
65°	185
67.5°	143
70°	94
72.5°	46
75°	21
77.5°	16
80°	13
82.5°	10
85°	7
87.5°	4
90°	3
92.5°	3
95°	4
97.5°	4
100°	5
102.5°	6
105°	7
107.5°	8
110°	8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	9
115°	10
117.5°	11
120°	15
122.5°	23
125°	32
127.5°	35
130°	33
132.5°	30
135°	28
137.5°	25
140°	22
142.5°	20
145°	17
147.5°	15
150°	13
152.5°	11
155°	9
157.5°	7
160°	6
162.5°	5
165°	4
167.5°	4
170°	3
172.5°	3
175°	3
177.5°	4
180°	4

(END OF REPORT)