

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: P14417

Luminaire Tested: **M482-12D-P1S-L3/835-PARH/1/150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14417
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: M482-12D-P1S-L3/835-PARH/1/150
Description: SHAPER 482 SERIES LED/INCANDESCENT PENDANT WITH DIFFUSED LENS
, HORIZONTAL TRIM BARS WITH A NATURAL ALUMINUM FINISH AND A
ROUND BOTTOM MOUNTED SQUARE PATTERN GRATE
Light Source: [4] 3500K COOPER LIGHTING LED STRIPS, [1] 150 WATT PAR 38
12423636, Q150PAR38/FL
Ballast/Driver: [1] PHILIPS ADVANCE DRIVER
LEDINTA2000C24DO

Summary

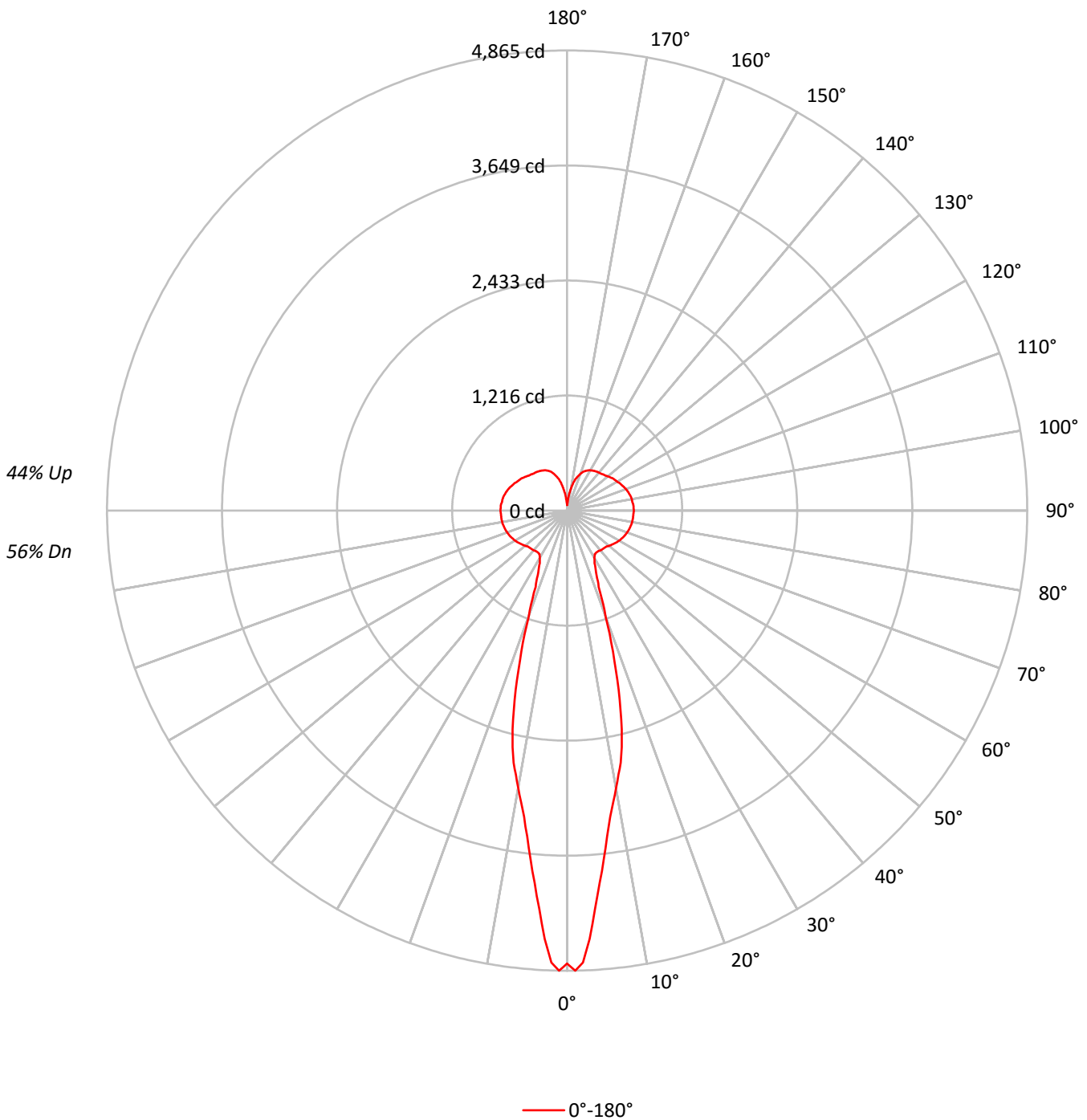
Lumens per Lamp: N/A
Luminaire Lumens: 8456.5 lumens
Efficiency: N/A
Efficacy: 35.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.48
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.5')
CIE Type: General Diffuse

Input Watts (W): 237.6
Input Voltage (V): NR
Input Current (Ain): 1.9796
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	109	109	109	109	101	101	101	101	87	87	87		74	74	74		62	62	62	56
1	95	89	84	79	88	83	78	74	70	67	63		59	56	54		48	46	44	39
2	86	77	69	62	79	71	64	58	60	55	50		50	46	43		41	38	36	31
3	78	67	58	51	72	62	54	48	53	47	42		44	39	36		36	33	30	26
4	71	59	50	43	66	55	47	41	47	41	36		39	34	30		32	29	26	22
5	66	53	44	37	60	49	41	35	42	36	31		36	31	27		30	26	23	19
6	61	48	39	33	56	45	37	31	38	32	27		33	28	24		27	23	20	17
7	57	44	35	29	52	41	33	28	35	29	25		30	25	21		25	21	18	16
8	53	40	32	26	49	37	30	25	33	26	22		28	23	20		24	20	17	15
9	50	37	29	24	46	35	27	23	30	24	20		26	21	18		22	18	16	14
10	47	34	27	22	43	32	25	21	28	23	19		24	20	17		21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55924
5°	36853
10°	23246
15°	14746
20°	7146
25°	3920
30°	2880
35°	2518
40°	2415
45°	2336
50°	2341
55°	2382
60°	2439
65°	2490
70°	2540
75°	2594
80°	2654
85°	2712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	4.1
10°-20°	580.8	6.9
20°-30°	351.7	4.2
30°-40°	343.3	4.1
40°-50°	433.7	5.1
50°-60°	545.5	6.5
60°-70°	652.0	7.7
70°-80°	727.9	8.6
80°-90°	764.6	9.0
90°-100°	763.9	9.0
100°-110°	719.0	8.5
110°-120°	633.2	7.5
120°-130°	528.6	6.3
130°-140°	418.7	5.0
140°-150°	320.2	3.8
150°-160°	213.8	2.5
160°-170°	98.5	1.2
170°-180°	15.7	0.2
0°-30°	1277.7	15.1
0°-40°	1621.0	19.2
0°-60°	2600.2	30.7
0°-90°	4744.7	56.1
90°-120°	2116.1	25.0
90°-150°	3383.7	40.0
90°-180°	3712.0	43.9
0°-180°	8456.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4789	
5°	3952	345
15°	2180	581
25°	721	352
35°	540	343
45°	557	434
55°	608	546
65°	658	652
75°	688	728
85°	700	572
90°	705	386
95°	703	571
105°	680	719
115°	636	633
125°	591	529
135°	540	419
145°	509	320
155°	463	214
165°	345	99
175°	124	16
180°	58	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4789
1°	4865
2°	4782
3°	4534
4°	4221
5°	3952
6°	3707
7°	3471
8°	3271
9°	3119
10°	2976
11°	2845
12°	2725
13°	2569
14°	2382
15°	2180
17.5°	1661
20°	1190
22.5°	872
25°	721
27.5°	629
30°	576
32.5°	545
35°	540
37.5°	540
40°	549
42.5°	554
45°	557
47.5°	563
50°	580
52.5°	592
55°	608
57.5°	622
60°	636
62.5°	646
65°	658
67.5°	667
70°	675
72.5°	683
75°	688
77.5°	695
80°	697
82.5°	700
85°	700
87.5°	702

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CANDELA DISTRIBUTION (continued):

	0°
90°	705
92.5°	703
95°	703
97.5°	695
100°	694
102.5°	688
105°	680
107.5°	672
110°	662
112.5°	651
115°	636
117.5°	627
120°	611
122.5°	601
125°	591
127.5°	576
130°	563
132.5°	548
135°	540
137.5°	529
140°	524
142.5°	518
145°	509
147.5°	502
150°	491
152.5°	479
155°	463
157.5°	444
160°	416
162.5°	382
165°	345
167.5°	299
170°	244
172.5°	185
175°	124
177.5°	76
180°	58

(END OF REPORT)