

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: P34365

Luminaire Tested: **226-S-L3/830-UNV-NA**

Test Date: 08/07/15

Test Information

Test Method: LM-79-08
Report Number: P34365
Test Lab: INNOVATION CENTER-P3
Test Date: 08/07/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 226-S-L3/830-UNV-NA
Description: SHAPER 226 STARTER COLLECTION LUMINOUS CLOUD SERIES.
Light Source: (18) COOPER LIGHTING 3000K LEDS
NA
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER
LC25-1050Z-UNV-Q

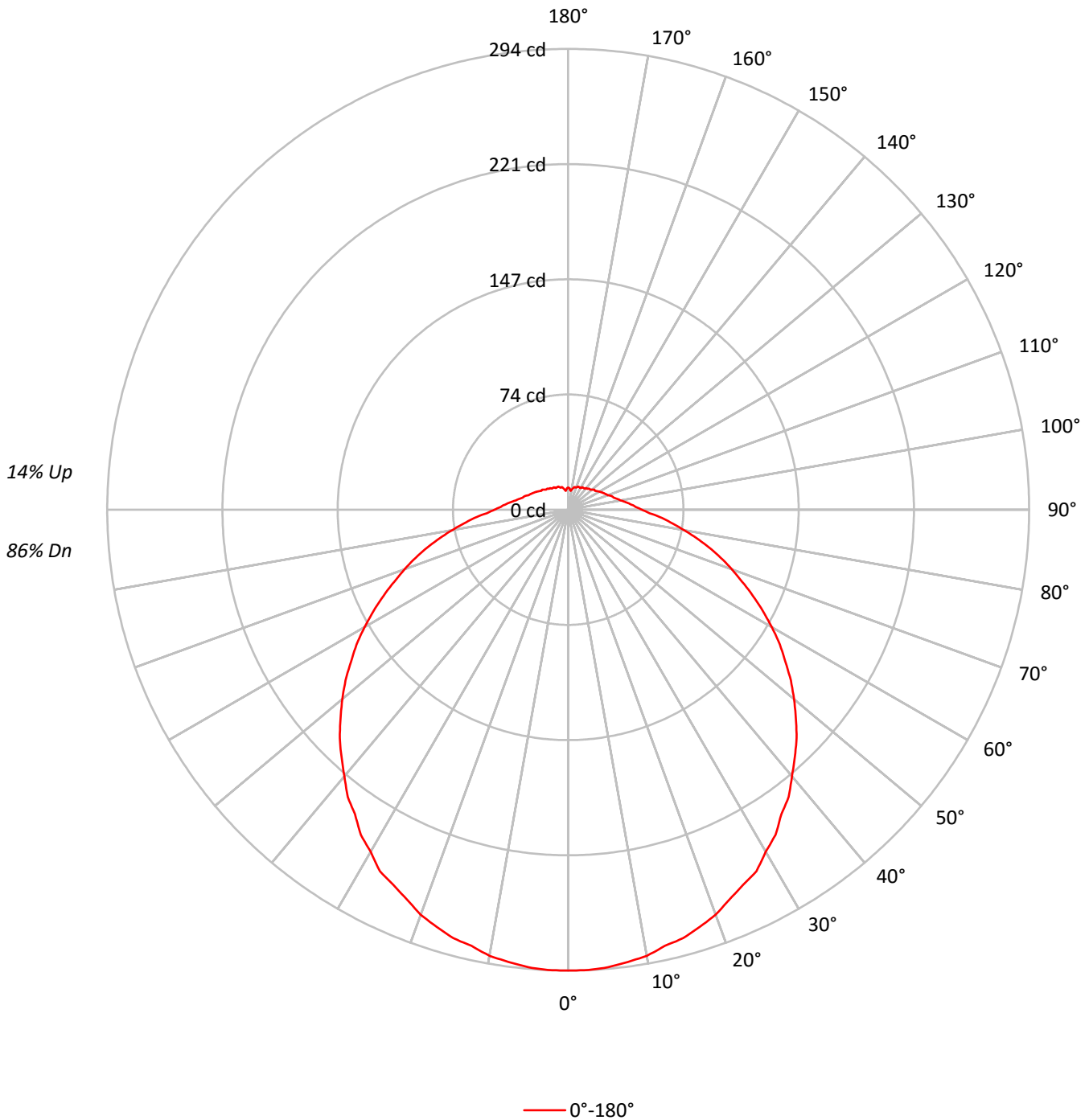
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1139.4 lumens
Efficiency: N/A
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.09' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 23.6
Input Voltage (V): 120.0
Input Current (A_{in}): 0.197
Voltage Rise (V): NR
Power Factor: 0.9985
Total Harmonic Distortion (THDi): 6.63
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	116	116	116	116	111	111	111	111	103	103	103		96	96	96		89	89	89	86
1	103	98	93	88	99	94	90	86	87	84	80		81	78	75		75	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65		70	65	61		65	61	58	55
3	85	73	65	58	81	71	63	56	66	59	53		61	55	51		57	52	48	45
4	77	65	55	48	74	62	54	47	58	51	45		54	48	43		50	45	41	38
5	71	57	48	41	68	56	47	40	52	44	39		48	42	37		45	40	35	33
6	65	52	42	36	62	50	41	35	47	39	34		44	37	32		41	35	31	28
7	60	47	38	31	58	45	37	31	42	35	30		40	33	28		37	32	27	25
8	56	42	34	28	54	41	33	27	39	31	26		36	30	25		34	29	24	22
9	52	39	30	25	50	38	30	24	35	28	24		33	27	23		31	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21		31	25	21		29	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3368
5°	3296
10°	3217
15°	3142
20°	3068
25°	2983
30°	2906
35°	2813
40°	2736
45°	2660
50°	2571
55°	2475
60°	2385
65°	2279
70°	2188
75°	2111
80°	2024
85°	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	2.4
10°-20°	79.8	7.0
20°-30°	122.0	10.7
30°-40°	149.0	13.1
40°-50°	158.8	13.9
50°-60°	151.5	13.3
60°-70°	128.9	11.3
70°-80°	98.2	8.6
80°-90°	65.4	5.7
90°-100°	43.8	3.8
100°-110°	32.2	2.8
110°-120°	24.8	2.2
120°-130°	19.2	1.7
130°-140°	14.5	1.3
140°-150°	10.7	0.9
150°-160°	7.4	0.6
160°-170°	4.1	0.4
170°-180°	1.2	0.1
0°-30°	229.6	20.2
0°-40°	378.6	33.2
0°-60°	688.9	60.5
0°-90°	981.5	86.1
90°-120°	100.8	8.8
90°-150°	145.2	12.7
90°-180°	158.0	13.9
0°-180°	1139.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	294	
5°	293	28
15°	283	80
25°	264	122
35°	237	149
45°	206	159
55°	169	152
65°	130	129
75°	93	98
85°	60	52
90°	47	26
95°	40	31
105°	30	32
115°	25	25
125°	21	19
135°	19	15
145°	17	11
155°	16	7
165°	15	4
175°	13	1
180°	14	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	294
2.5°	294
5°	293
7.5°	291
10°	289
12.5°	285
15°	283
17.5°	279
20°	275
22.5°	269
25°	264
27.5°	260
30°	252
32.5°	246
35°	237
37.5°	231
40°	222
42.5°	214
45°	206
47.5°	197
50°	188
52.5°	179
55°	169
57.5°	160
60°	150
62.5°	140
65°	130
67.5°	120
70°	111
72.5°	102
75°	93
77.5°	84
80°	75
82.5°	67
85°	60
87.5°	52
90°	47
92.5°	43
95°	40
97.5°	37
100°	34
102.5°	32
105°	30
107.5°	29
110°	27



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	26
115°	25
117.5°	24
120°	23
122.5°	22
125°	21
127.5°	21
130°	20
132.5°	19
135°	19
137.5°	18
140°	18
142.5°	17
145°	17
147.5°	17
150°	16
152.5°	16
155°	16
157.5°	16
160°	15
162.5°	15
165°	15
167.5°	14
170°	13
172.5°	12
175°	13
177.5°	14
180°	14

(END OF REPORT)