

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: PORTFOLIO

Report Number: P246342

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10850 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 685.0 lumens
Efficiency: 36.3%
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

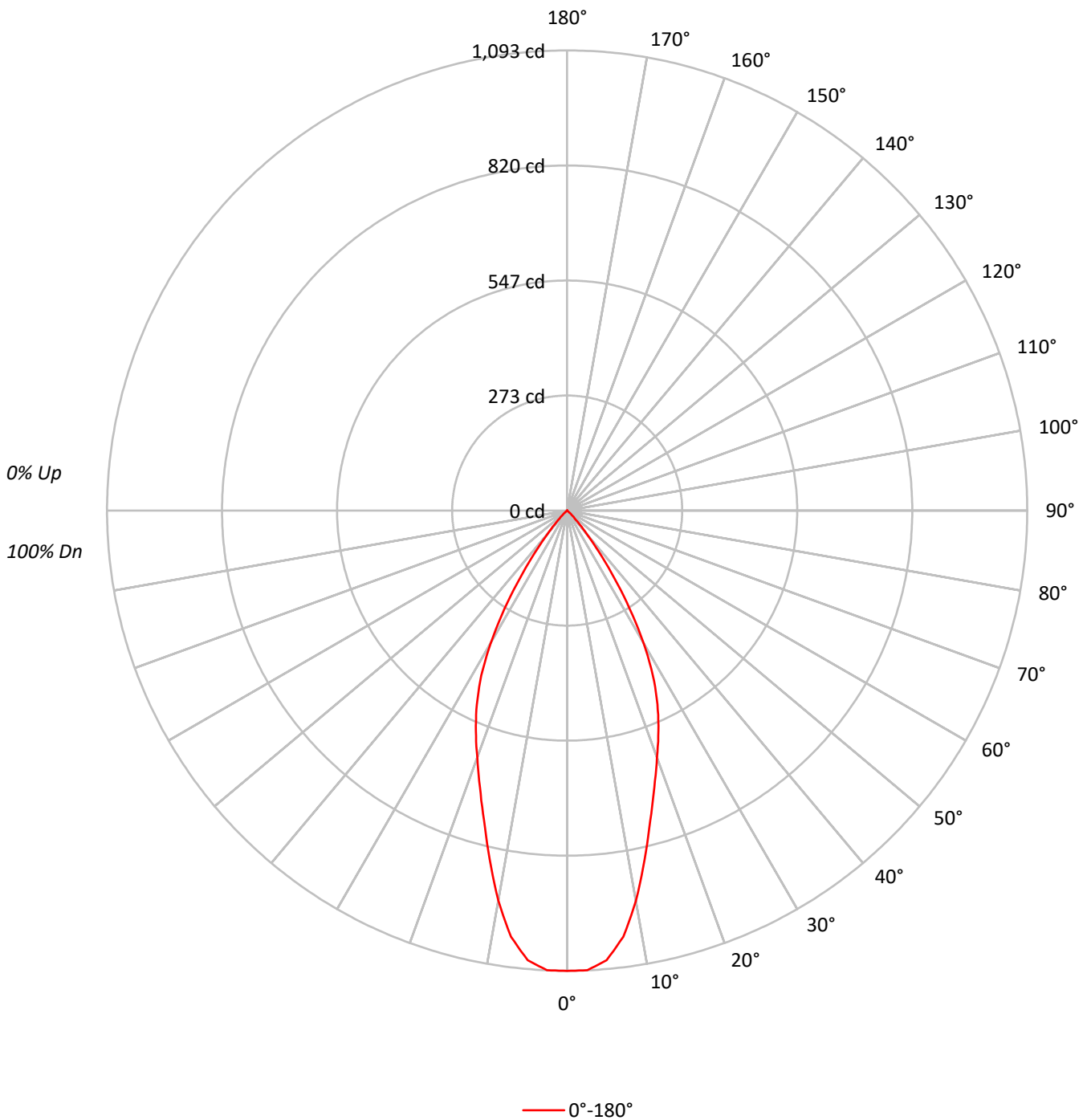
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	43	43	43	43	42	42	42	42	40	40	40	39	39	39	37	37	37	36
1	41	40	40	39	40	40	39	38	38	38	37	37	36	36	36	35	35	34
2	40	38	37	35	39	37	36	35	36	35	34	35	34	33	34	33	33	32
3	38	36	34	33	37	35	34	32	34	33	32	33	32	31	32	32	31	30
4	36	33	32	30	35	33	31	30	32	31	30	32	30	29	31	30	29	28
5	34	32	30	28	34	31	29	28	31	29	28	30	29	28	29	28	27	27
6	33	30	28	26	32	30	28	26	29	27	26	29	27	26	28	27	26	25
7	31	28	26	25	31	28	26	25	28	26	25	27	26	24	27	25	24	24
8	30	27	25	23	30	27	25	23	26	24	23	26	24	23	25	24	23	23
9	29	25	23	22	28	25	23	22	25	23	22	25	23	22	24	23	22	21
10	27	24	22	21	27	24	22	21	24	22	21	23	22	21	23	22	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33716
5°	33183
10°	29477
15°	24323
20°	20480
25°	17274
30°	12939
35°	7318
40°	2890
45°	772
50°	154
55°	0
60°	25
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	98.1	14.3	5.2	0°	1093	
10°-20°	213.8	31.2	11.3	5°	1072	98
20°-30°	229.0	33.4	12.1	15°	762	214
30°-40°	124.1	18.1	6.6	25°	508	229
40°-50°	19.3	2.8	1.0	35°	194	124
50°-60°	0.6	0.1	0.0	45°	18	19
60°-70°	0.1	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	540.9	79.0	28.7	165°	0	0
0°-40°	665.0	97.1	35.2	175°	0	0
0°-60°	684.9	100.0	36.3	180°	0	0
0°-90°	685.0	100.0	36.3			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	685.0	100.0	36.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1093.4
2.5°	1092.7
5°	1072.0
7.5°	1020.9
10°	941.4
12.5°	848.9
15°	761.9
17.5°	688.3
20°	624.1
22.5°	566.5
25°	507.7
27.5°	441.4
30°	363.4
32.5°	277.1
35°	194.4
37.5°	124.4
40°	71.8
42.5°	38.4
45°	17.7
47.5°	9.4
50°	3.2
52.5°	0.4
55°	0.0
57.5°	0.4
60°	0.4
62.5°	0.0
65°	0.0
67.5°	0.4
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)