

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: P245610

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10835 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 938.0 lumens
Efficiency: 43.0%
Efficacy: 92.0 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

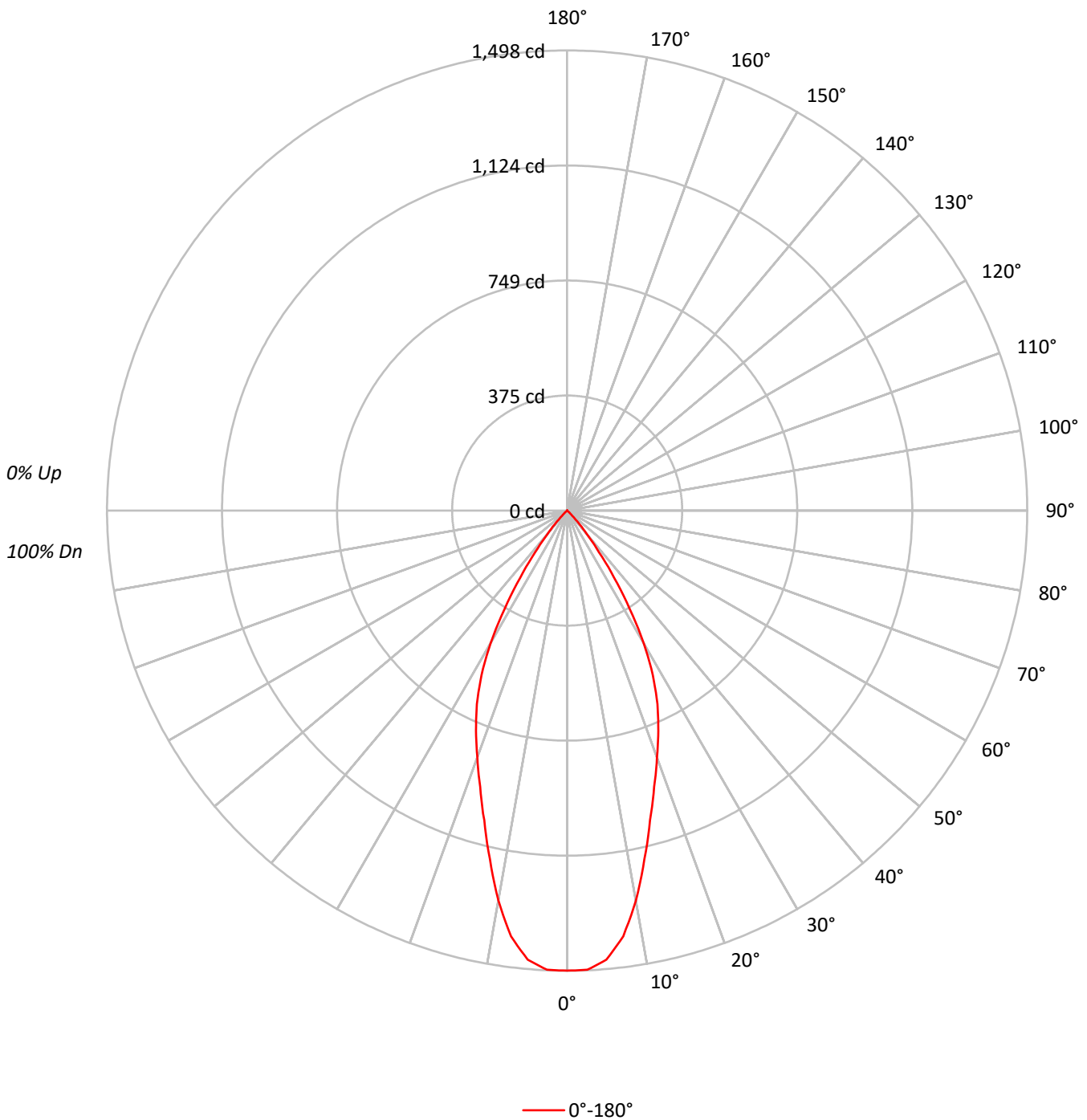
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	43
1	49	48	47	46	48	47	46	45	45	44	44	44	43	43	42	42	41	41
2	47	45	43	42	46	44	43	41	43	42	40	41	40	40	40	40	39	38
3	45	42	40	39	44	42	40	38	40	39	38	39	38	37	38	37	36	36
4	43	40	37	36	42	39	37	36	38	36	35	37	36	35	37	35	34	34
5	41	37	35	33	40	37	35	33	36	34	33	36	34	33	35	33	32	32
6	39	35	33	31	38	35	33	31	34	32	31	34	32	31	33	32	30	30
7	37	33	31	29	37	33	31	29	33	31	29	32	30	29	32	30	29	28
8	35	32	29	28	35	31	29	28	31	29	27	31	29	27	30	29	27	27
9	34	30	28	26	33	30	28	26	29	27	26	29	27	26	29	27	26	25
10	32	29	26	25	32	28	26	25	28	26	25	28	26	25	27	26	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46180
5°	45441
10°	40374
15°	33313
20°	28044
25°	23660
30°	17714
35°	10017
40°	3957
45°	1064
50°	206
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°	134.3	14.3	6.2	0°	1498	
10°-20°	292.8	31.2	13.4	5°	1468	134
20°-30°	313.6	33.4	14.4	15°	1044	293
30°-40°	169.9	18.1	7.8	25°	695	314
40°-50°	26.4	2.8	1.2	35°	266	170
50°-60°	0.7	0.1	0.0	45°	24	26
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°	740.7	79.0	33.9	165°	0	0
0°-40°	910.7	97.1	41.7	175°	0	0
0°-60°	937.8	100.0	43.0	180°	0	0
0°-90°	938.0	100.0	43.0			
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°	938.0	100.0	43.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1497.6
2.5°	1496.4
5°	1468.0
7.5°	1398.0
10°	1289.4
12.5°	1162.4
15°	1043.5
17.5°	942.6
20°	854.6
22.5°	775.6
25°	695.4
27.5°	604.3
30°	497.5
32.5°	379.4
35°	266.1
37.5°	170.4
40°	98.3
42.5°	52.4
45°	24.4
47.5°	13.3
50°	4.3
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)