

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: P245604

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245604
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 EC8B10830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 902.0 lumens
Efficiency: 41.3%
Efficacy: 88.4 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

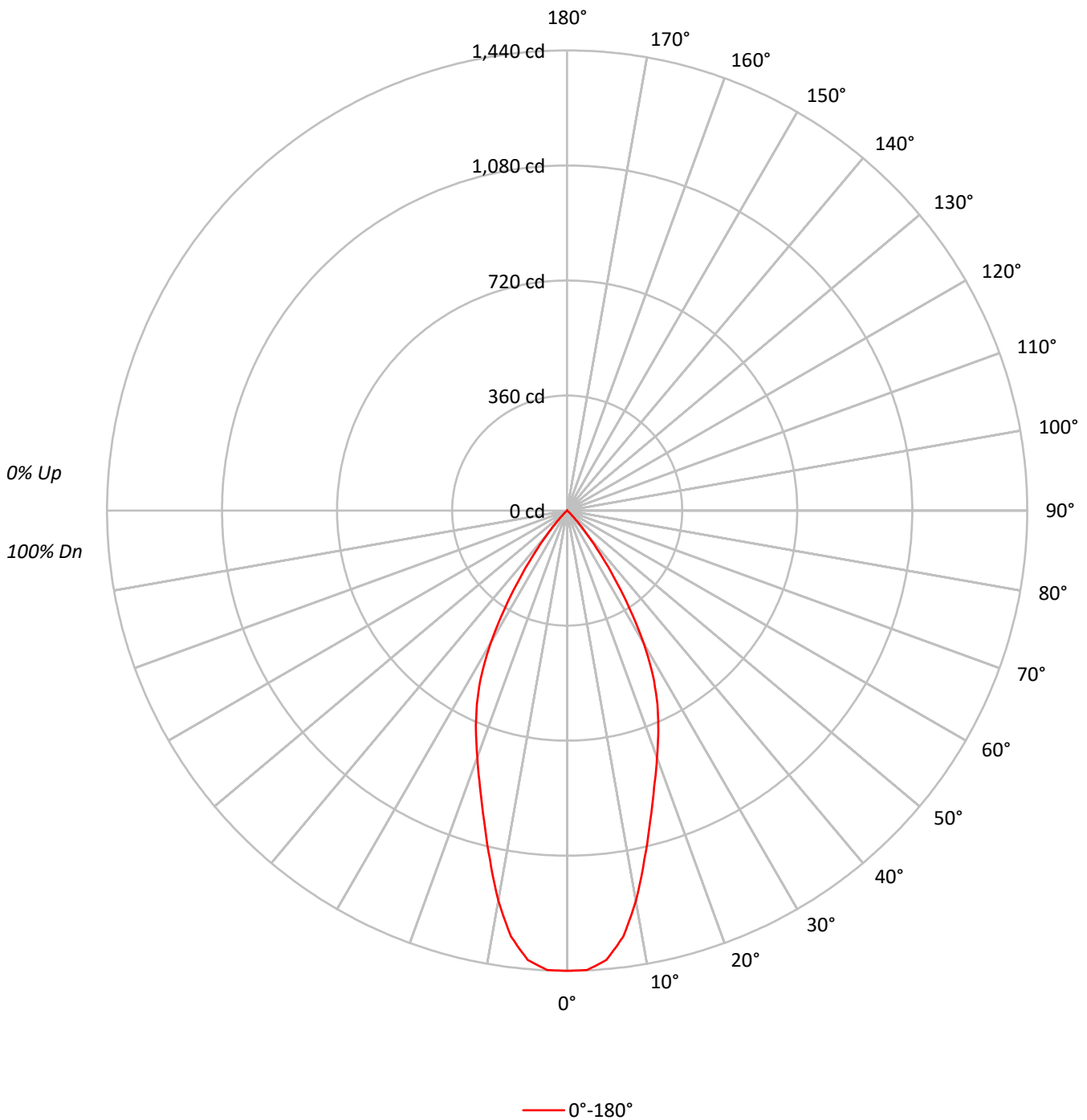
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	41
1	47	46	45	44	46	45	44	43	43	43	42	42	41	41	41	40	40	39
2	45	43	42	40	44	42	41	40	41	40	39	40	39	38	39	38	37	37
3	43	40	39	37	42	40	38	37	39	37	36	38	37	36	37	36	35	34
4	41	38	36	34	40	38	36	34	37	35	34	36	35	33	35	34	33	32
5	39	36	34	32	38	36	33	32	35	33	32	34	33	31	34	32	31	31
6	37	34	32	30	37	34	31	30	33	31	30	32	31	30	32	30	29	29
7	36	32	30	28	35	32	30	28	31	29	28	31	29	28	30	29	28	27
8	34	30	28	27	34	30	28	27	30	28	26	29	28	26	29	27	26	26
9	33	29	27	25	32	29	27	25	28	26	25	28	26	25	28	26	25	24
10	31	28	25	24	31	27	25	24	27	25	24	27	25	24	26	25	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44407
5°	43698
10°	38827
15°	32036
20°	26968
25°	22752
30°	17034
35°	9633
40°	3804
45°	1025
50°	197
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°	129.2	14.3	5.9	0°	1440	
10°-20°	281.6	31.2	12.9	5°	1412	129
20°-30°	301.6	33.4	13.8	15°	1004	282
30°-40°	163.4	18.1	7.5	25°	669	302
40°-50°	25.4	2.8	1.2	35°	256	163
50°-60°	0.7	0.1	0.0	45°	24	25
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°	712.3	79.0	32.6	165°	0	0
0°-40°	875.8	97.1	40.1	175°	0	0
0°-60°	901.9	100.0	41.3	180°	0	0
0°-90°	902.0	100.0	41.3			
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°	902.0	100.0	41.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1440.1
2.5°	1438.9
5°	1411.7
7.5°	1344.4
10°	1240.0
12.5°	1117.8
15°	1003.5
17.5°	906.4
20°	821.8
22.5°	745.9
25°	668.7
27.5°	581.2
30°	478.4
32.5°	364.9
35°	255.9
37.5°	163.9
40°	94.5
42.5°	50.4
45°	23.5
47.5°	12.8
50°	4.1
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)