

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: P245616

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245616  
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 EC8B10840 8LBNOGPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 932.0 lumens  
Efficiency: 42.7%  
Efficacy: 91.4 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

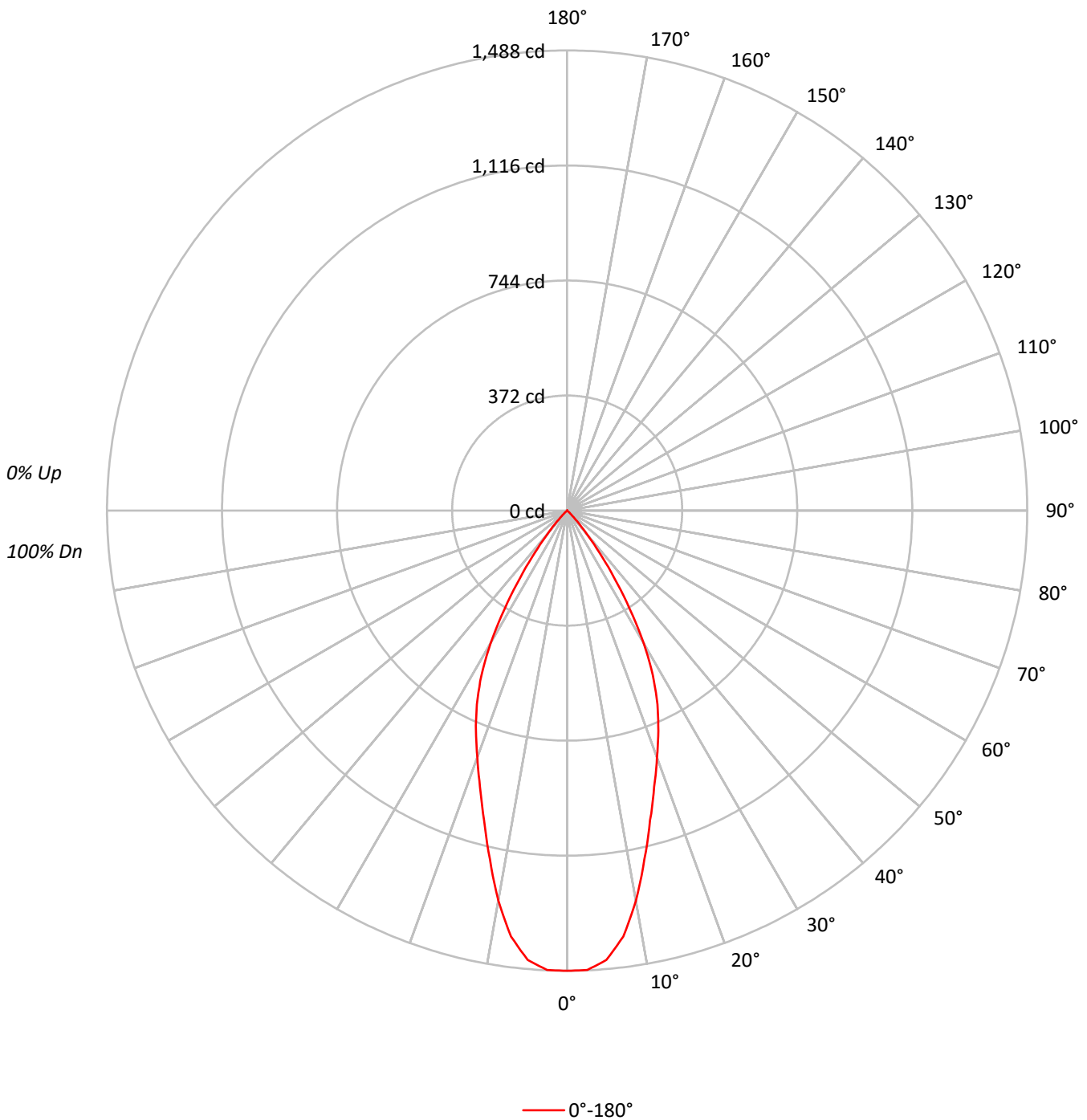
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	45884
5°	45150
10°	40117
15°	33099
20°	27863
25°	23511
30°	17600
35°	9953
40°	3929
45°	1060
50°	201
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°	133.5	14.3	6.1	0°	1488	
10°-20°	290.9	31.2	13.3	5°	1459	133
20°-30°	311.6	33.4	14.3	15°	1037	291
30°-40°	168.9	18.1	7.7	25°	691	312
40°-50°	26.3	2.8	1.2	35°	264	169
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°	736.0	79.0	33.7	165°	0	0
0°-40°	904.9	97.1	41.5	175°	0	0
0°-60°	931.8	100.0	42.7	180°	0	0
0°-90°	932.0	100.0	42.7			
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°	932.0	100.0	42.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1488.0
2.5°	1486.8
5°	1458.6
7.5°	1389.1
10°	1281.2
12.5°	1154.9
15°	1036.8
17.5°	936.6
20°	849.1
22.5°	770.7
25°	691.0
27.5°	600.5
30°	494.3
32.5°	377.0
35°	264.4
37.5°	169.4
40°	97.6
42.5°	52.0
45°	24.3
47.5°	13.3
50°	4.2
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)