

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: P246368

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246368  
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: LSR8B20D010 EC8B20940 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1159.0 lumens  
Efficiency: 61.4%  
Efficacy: 54.4 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

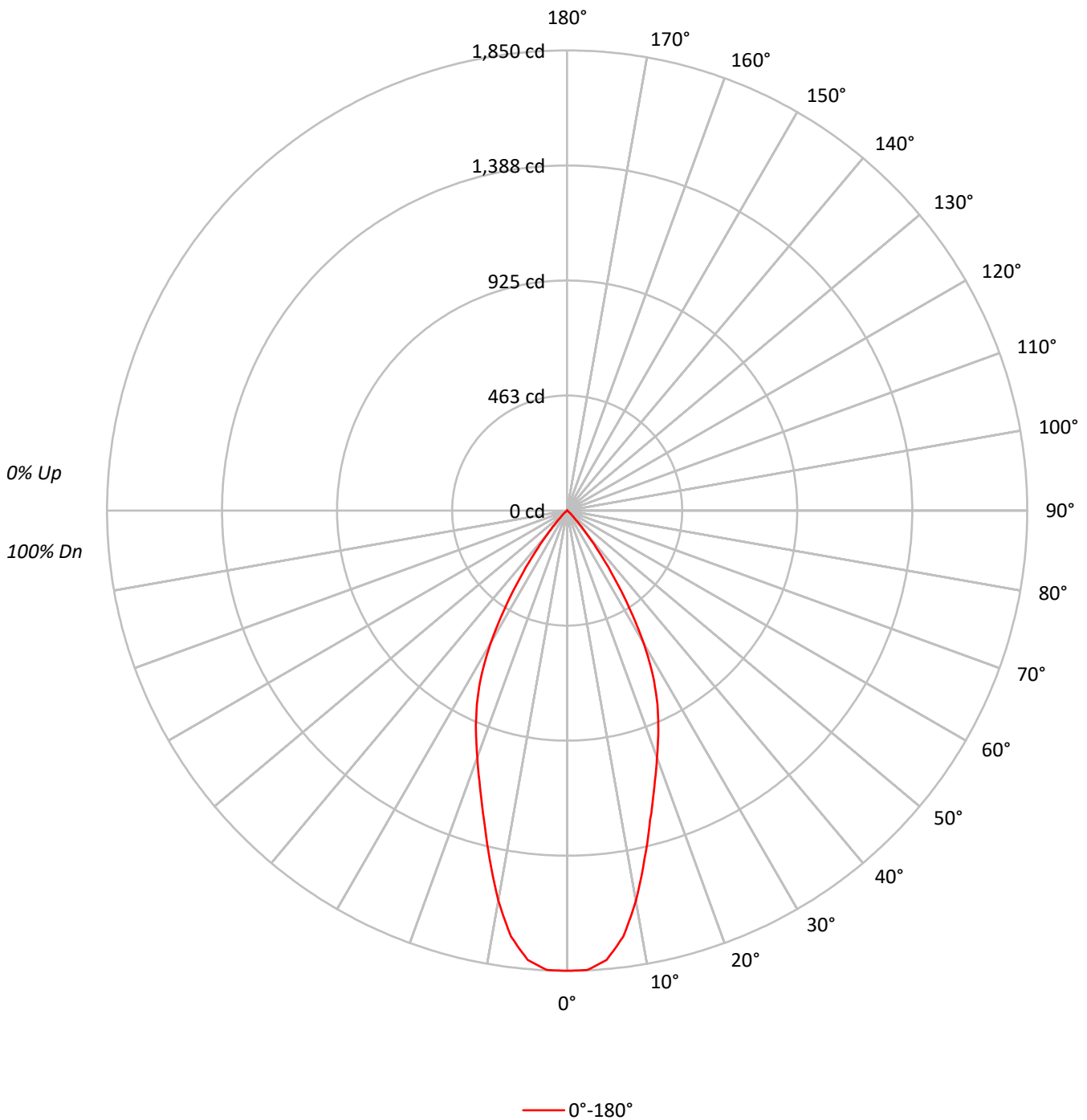
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	73	73	73	71	71	71	71	68	68	68		65	65	65		63	63	63	61
1	70	68	67	66	68	67	66	65	65	64	63		62	62	61		60	60	59	58
2	67	64	62	60	66	63	61	59	61	59	58		59	58	57		58	56	55	55
3	64	60	57	55	63	59	57	55	58	56	54		56	54	53		55	53	52	51
4	61	57	53	51	60	56	53	51	55	52	50		53	51	50		52	51	49	48
5	58	53	50	48	57	53	50	47	52	49	47		51	48	47		50	48	46	45
6	55	50	47	45	55	50	47	44	49	46	44		48	46	44		47	45	44	43
7	53	48	44	42	52	47	44	42	47	44	42		46	43	41		45	43	41	40
8	51	45	42	40	50	45	42	39	44	41	39		44	41	39		43	41	39	38
9	49	43	40	37	48	43	40	37	42	39	37		42	39	37		41	39	37	36
10	46	41	38	35	46	41	37	35	40	37	35		40	37	35		39	37	35	34

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

	0°
0°	57044
5°	56145
10°	49877
15°	41153
20°	34653
25°	29227
30°	21891
35°	12381
40°	4891
45°	1308
50°	264
55°	0
60°	37
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°	166.0	14.3	8.8	0°	1850	
10°-20°	361.7	31.2	19.2	5°	1814	166
20°-30°	387.5	33.4	20.5	15°	1289	362
30°-40°	210.0	18.1	11.1	25°	859	388
40°-50°	32.6	2.8	1.7	35°	329	210
50°-60°	0.9	0.1	0.0	45°	30	33
60°-70°	0.2	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°	915.2	79.0	48.5	165°	0	0
0°-40°	1125.2	97.1	59.6	175°	0	0
0°-60°	1158.8	100.0	61.4	180°	0	0
0°-90°	1159.0	100.0	61.4			
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°	1159.0	100.0	61.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1849.9
2.5°	1848.7
5°	1813.8
7.5°	1727.3
10°	1592.9
12.5°	1436.4
15°	1289.1
17.5°	1164.6
20°	1056.0
22.5°	958.4
25°	859.0
27.5°	746.8
30°	614.8
32.5°	468.8
35°	328.9
37.5°	210.5
40°	121.5
42.5°	65.0
45°	30.0
47.5°	15.9
50°	5.5
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
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)