

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: P246344

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246344  
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 EC8B20850 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: 1318.0 lumens  
Efficiency: 69.8%  
Efficacy: 61.9 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

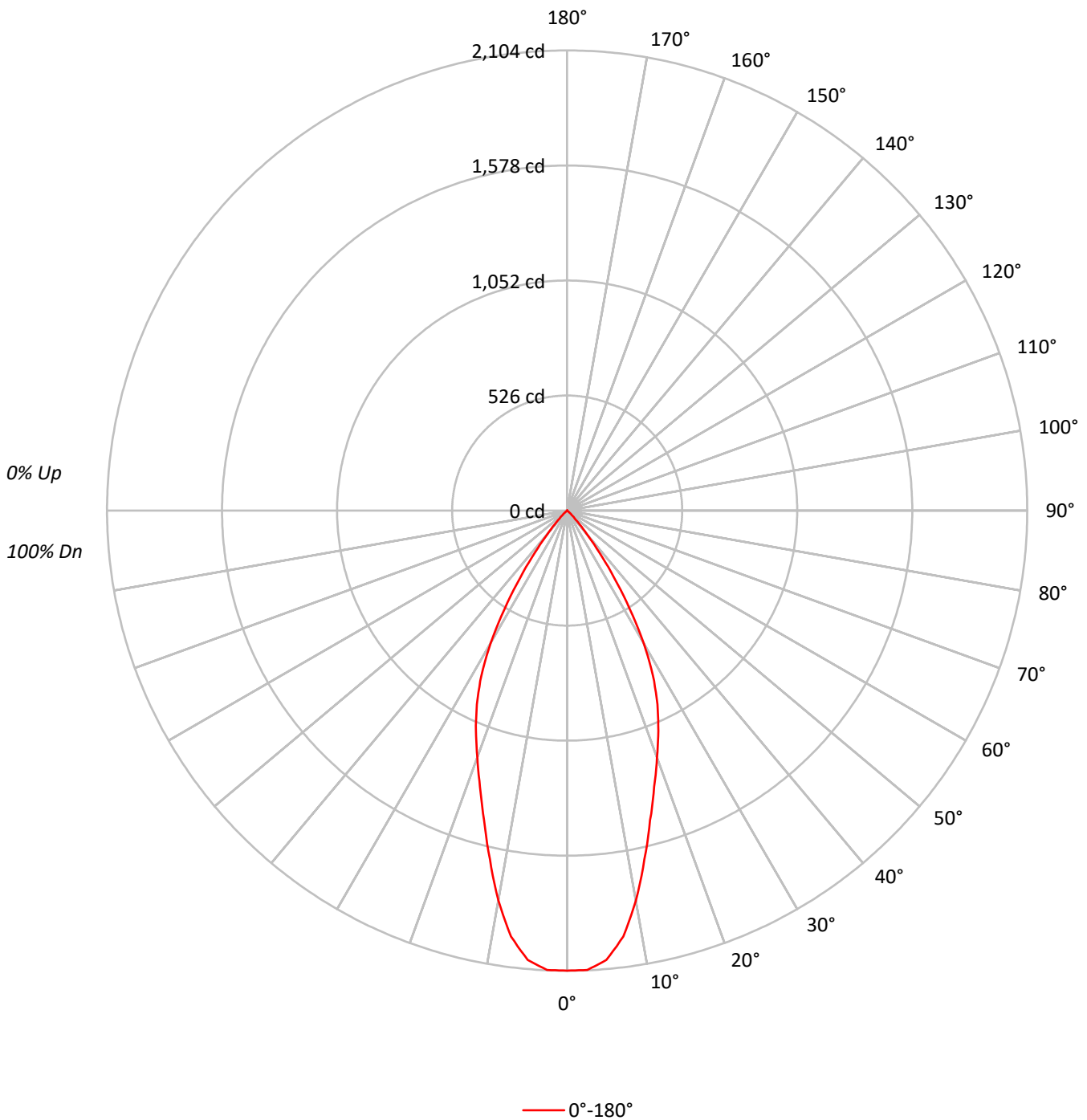
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	83	83	83	81	81	81	81	78	78	78		74	74	74		71	71	71	70
1	80	78	76	75	78	76	75	74	73	72	71		71	70	69		68	68	67	66
2	76	73	70	68	75	72	69	67	69	68	66		67	66	64		65	64	63	62
3	73	68	65	63	71	67	65	62	66	63	61		64	62	60		62	61	59	58
4	69	64	61	58	68	64	60	58	62	59	57		61	58	56		60	57	56	55
5	66	61	57	54	65	60	57	54	59	56	53		58	55	53		57	54	53	52
6	63	57	54	51	62	57	53	51	56	53	50		55	52	50		54	52	50	49
7	60	54	50	48	59	54	50	48	53	50	47		52	49	47		51	49	47	46
8	58	51	48	45	57	51	47	45	50	47	45		50	47	45		49	46	44	43
9	55	49	45	43	54	49	45	42	48	45	42		47	44	42		47	44	42	41
10	53	47	43	40	52	46	43	40	46	42	40		45	42	40		45	42	40	39

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

	0°
0°	64870
5°	63846
10°	56719
15°	46801
20°	39405
25°	33238
30°	24896
35°	14079
40°	5559
45°	1487
50°	297
55°	0
60°	43
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°	188.7	14.3	10.0	0°	2104	
10°-20°	411.4	31.2	21.8	5°	2063	189
20°-30°	440.7	33.4	23.4	15°	1466	411
30°-40°	238.8	18.1	12.7	25°	977	441
40°-50°	37.1	2.8	2.0	35°	374	239
50°-60°	1.1	0.1	0.1	45°	34	37
60°-70°	0.3	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°	1040.8	79.0	55.2	165°	0	0
0°-40°	1279.6	97.1	67.8	175°	0	0
0°-60°	1317.7	100.0	69.8	180°	0	0
0°-90°	1318.0	100.0	69.8			
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°	1318.0	100.0	69.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2103.7
2.5°	2102.4
5°	2062.6
7.5°	1964.2
10°	1811.4
12.5°	1633.4
15°	1466.0
17.5°	1324.4
20°	1200.8
22.5°	1089.9
25°	976.9
27.5°	849.2
30°	699.2
32.5°	533.1
35°	374.0
37.5°	239.4
40°	138.1
42.5°	73.9
45°	34.1
47.5°	18.1
50°	6.2
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
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)