

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: P243872

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20827 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2000.1 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

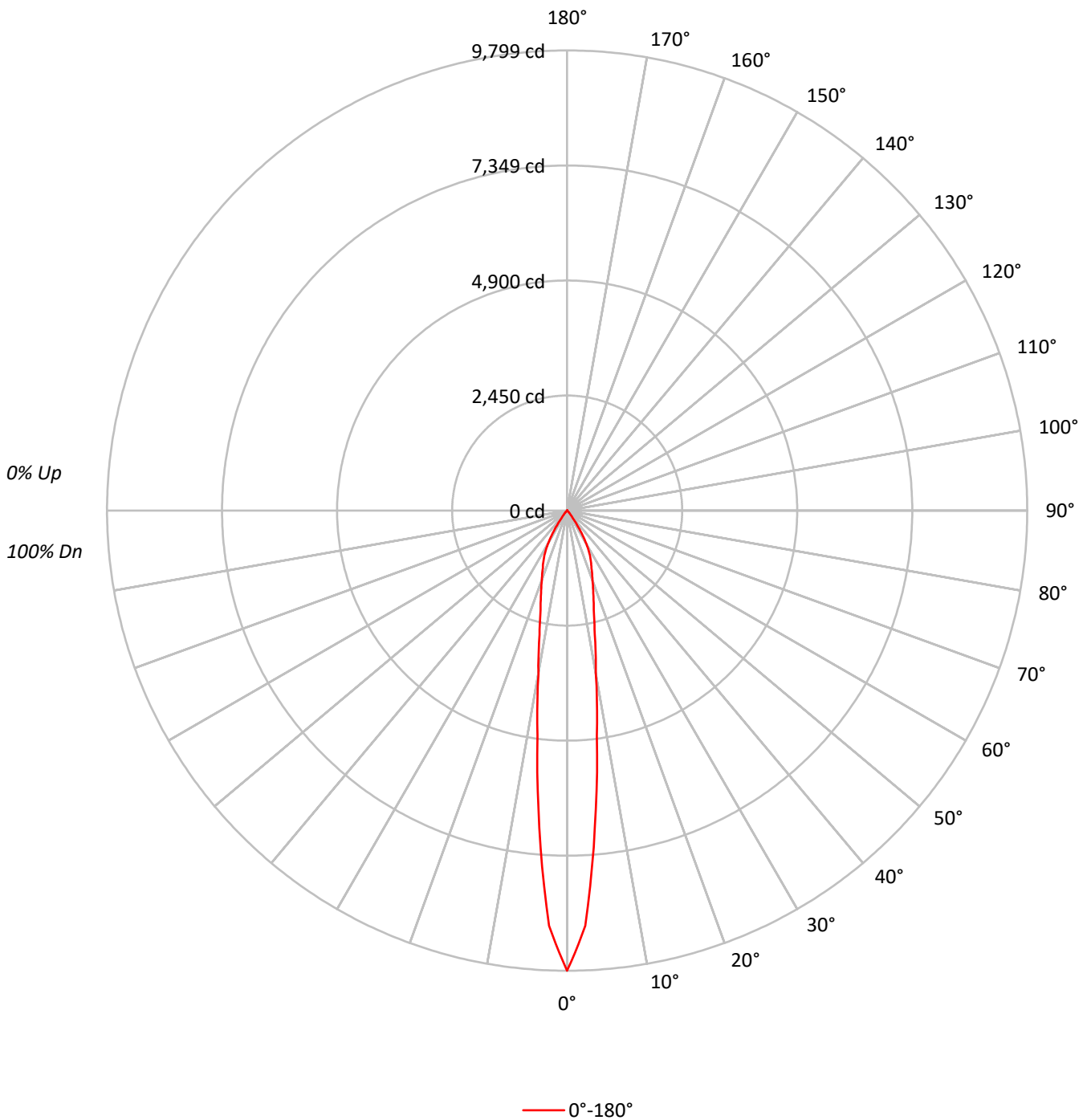
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78		83	80	77		82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74		80	77	74		79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71		77	74	71		76	73	71	70
9	85	77	72	69	84	76	72	69	75	71	68		75	71	68		74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66		72	68	66		71	68	65	64

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

	0°
0°	302156
5°	209863
10°	110434
15°	69872
20°	51927
25°	40822
30°	29390
35°	12615
40°	4396
45°	1688
50°	389
55°	145
60°	0
65°	197
70°	63
75°	167
80°	249
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.5	27.2
10°-20°	631.5	31.6
20°-30°	545.0	27.3
30°-40°	236.5	11.8
40°-50°	37.1	1.9
50°-60°	2.7	0.1
60°-70°	1.4	0.1
70°-80°	1.5	0.1
80°-90°	0.8	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1720.1	86.0
0°-40°	1956.6	97.8
0°-60°	1996.3	99.8
0°-90°	2000.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9799	
5°	6780	544
15°	2189	632
25°	1200	545
35°	335	236
45°	39	37
55°	3	3
65°	3	1
75°	1	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9798.7
2.5°	8848.4
5°	6779.8
7.5°	4835.2
10°	3526.9
12.5°	2706.2
15°	2188.7
17.5°	1840.8
20°	1582.4
22.5°	1361.9
25°	1199.8
27.5°	1028.9
30°	825.4
32.5°	573.8
35°	335.1
37.5°	187.2
40°	109.2
42.5°	67.8
45°	38.7
47.5°	31.2
50°	8.1
52.5°	4.1
55°	2.7
57.5°	1.4
60°	0.0
62.5°	0.7
65°	2.7
67.5°	2.0
70°	0.7
72.5°	3.4
75°	1.4
77.5°	0.0
80°	1.4
82.5°	0.7
85°	0.0
87.5°	1.4
90°	0.0

(END OF REPORT)