

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: P243932

Luminaire Tested: **LSR8B20D010 EC8B20927 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243932  
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 EC8B20927 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1670.6 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

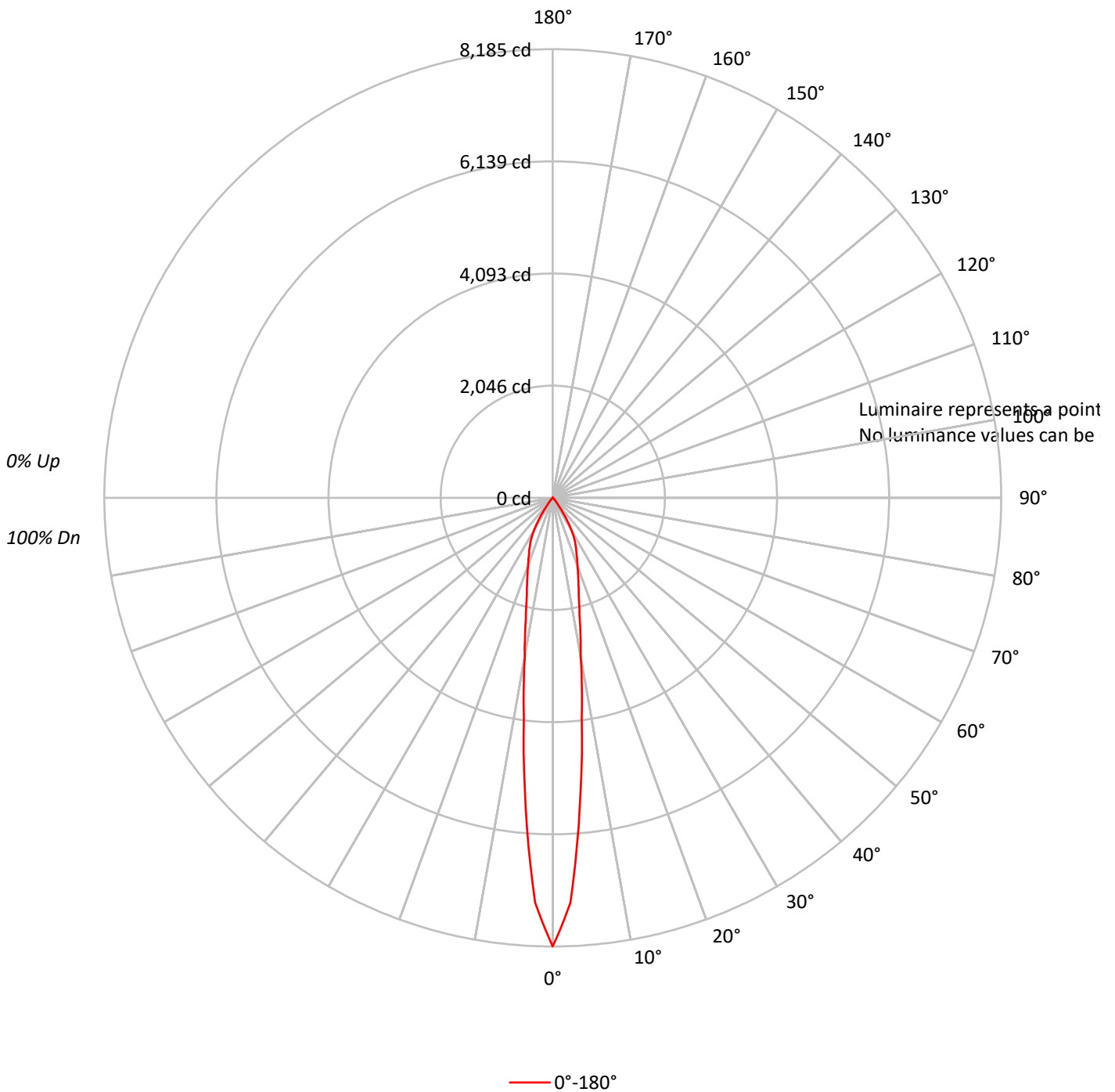
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	103	102	101	100	100	99	98	97	97	95	95	95	95
2	110	106	102	100	108	104	101	99	101	99	96	96	98	96	94	94	95	94	92	92	91	91	91	91
3	106	100	96	93	104	99	95	92	96	93	91	91	94	92	89	89	92	90	88	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	86	90	87	85	85	89	86	84	84	83	83	83	83
5	98	91	86	83	96	90	86	82	88	85	82	82	87	84	81	81	85	83	80	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	78	83	80	77	77	82	79	77	77	76	76	76	76
7	91	83	78	75	90	83	78	75	81	77	74	74	80	77	74	74	79	76	74	74	72	72	72	72
8	88	80	75	72	86	79	75	71	78	74	71	71	77	74	71	71	76	73	71	71	70	70	70	70
9	85	77	72	69	84	76	72	69	75	71	68	68	75	71	68	68	74	70	68	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	69	66	66	72	68	66	66	71	68	65	65	64	64	64	64

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.0	27.2
10°-20°	527.5	31.6
20°-30°	455.3	27.3
30°-40°	197.5	11.8
40°-50°	31.0	1.9
50°-60°	2.2	0.1
60°-70°	1.2	0.1
70°-80°	1.2	0.1
80°-90°	0.6	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°	1436.8	86.0
0°-40°	1634.3	97.8
0°-60°	1667.5	99.8
0°-90°	1670.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8185	
5°	5663	454
15°	1828	528
25°	1002	455
35°	280	198
45°	32	31
55°	2	2
65°	2	1
75°	1	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8184.9
2.5°	7391.2
5°	5663.2
7.5°	4039.0
10°	2946.0
12.5°	2260.6
15°	1828.2
17.5°	1537.6
20°	1321.8
22.5°	1137.6
25°	1002.3
27.5°	859.5
30°	689.5
32.5°	479.2
35°	279.9
37.5°	156.4
40°	91.2
42.5°	56.7
45°	32.3
47.5°	26.1
50°	6.8
52.5°	3.4
55°	2.2
57.5°	1.1
60°	0.0
62.5°	0.6
65°	2.2
67.5°	1.7
70°	0.6
72.5°	2.8
75°	1.1
77.5°	0.0
80°	1.1
82.5°	0.6
85°	0.0
87.5°	1.1
90°	0.0

(END OF REPORT)