

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: P243920

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243920  
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 EC8B20940 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1898.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

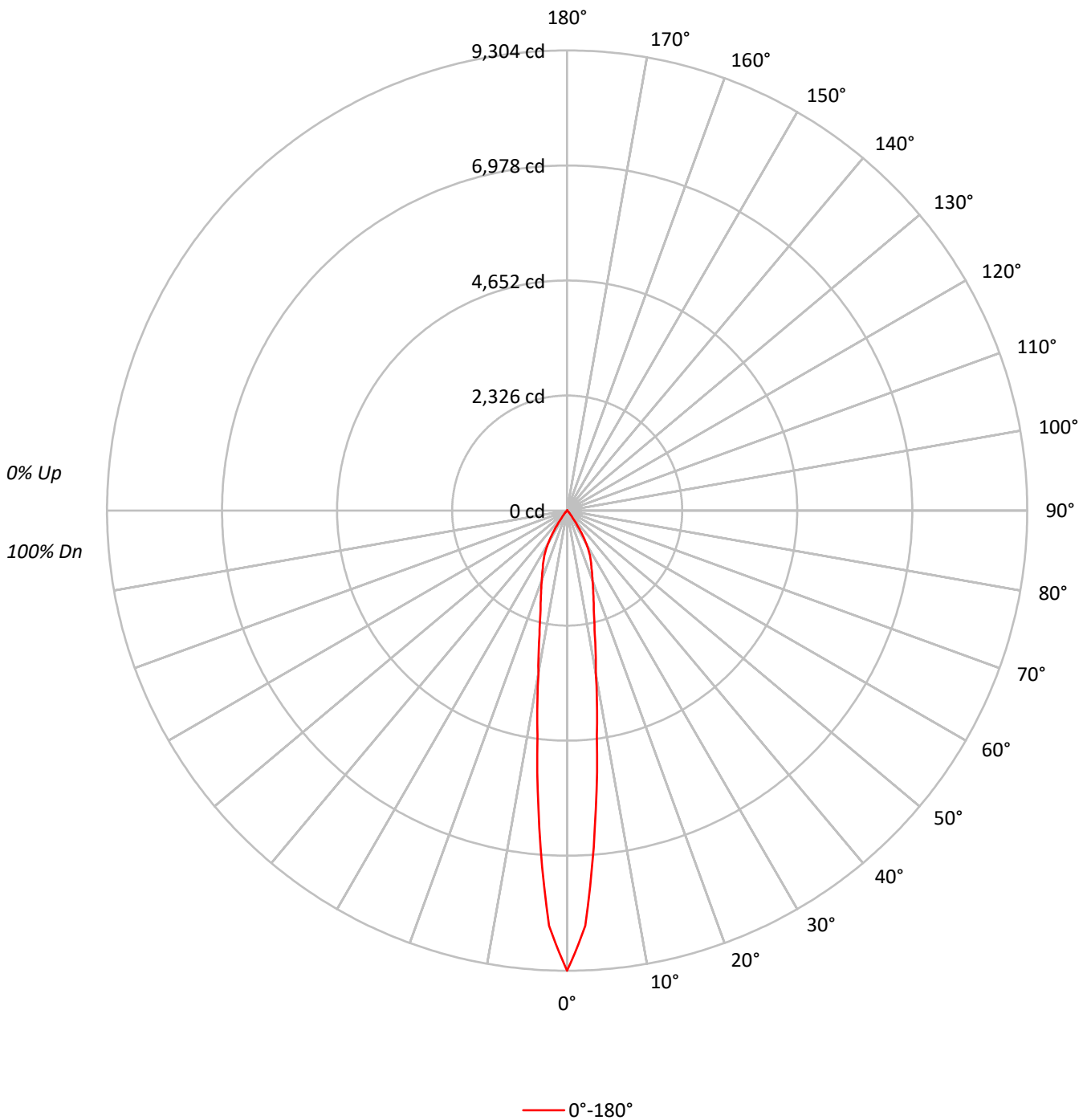
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	286895
5°	199264
10°	104858
15°	66345
20°	49302
25°	38760
30°	27905
35°	11975
40°	4174
45°	1600
50°	369
55°	140
60°	0
65°	190
70°	54
75°	155
80°	231
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.1	27.2
10°-20°	599.6	31.6
20°-30°	517.5	27.3
30°-40°	224.5	11.8
40°-50°	35.2	1.9
50°-60°	2.6	0.1
60°-70°	1.3	0.1
70°-80°	1.4	0.1
80°-90°	0.7	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°	1633.2	86.0
0°-40°	1857.7	97.8
0°-60°	1895.5	99.8
0°-90°	1898.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9304	
5°	6437	516
15°	2078	600
25°	1139	518
35°	318	225
45°	37	35
55°	3	3
65°	3	1
75°	1	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9303.8
2.5°	8401.6
5°	6437.4
7.5°	4591.1
10°	3348.8
12.5°	2569.6
15°	2078.2
17.5°	1747.8
20°	1502.4
22.5°	1293.1
25°	1139.2
27.5°	976.9
30°	783.7
32.5°	544.8
35°	318.1
37.5°	177.7
40°	103.7
42.5°	64.4
45°	36.7
47.5°	29.6
50°	7.7
52.5°	3.9
55°	2.6
57.5°	1.3
60°	0.0
62.5°	0.6
65°	2.6
67.5°	1.9
70°	0.6
72.5°	3.2
75°	1.3
77.5°	0.0
80°	1.3
82.5°	0.6
85°	0.0
87.5°	1.3
90°	0.0

(END OF REPORT)