

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: P243896

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243896  
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 EC8B20850 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2160.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

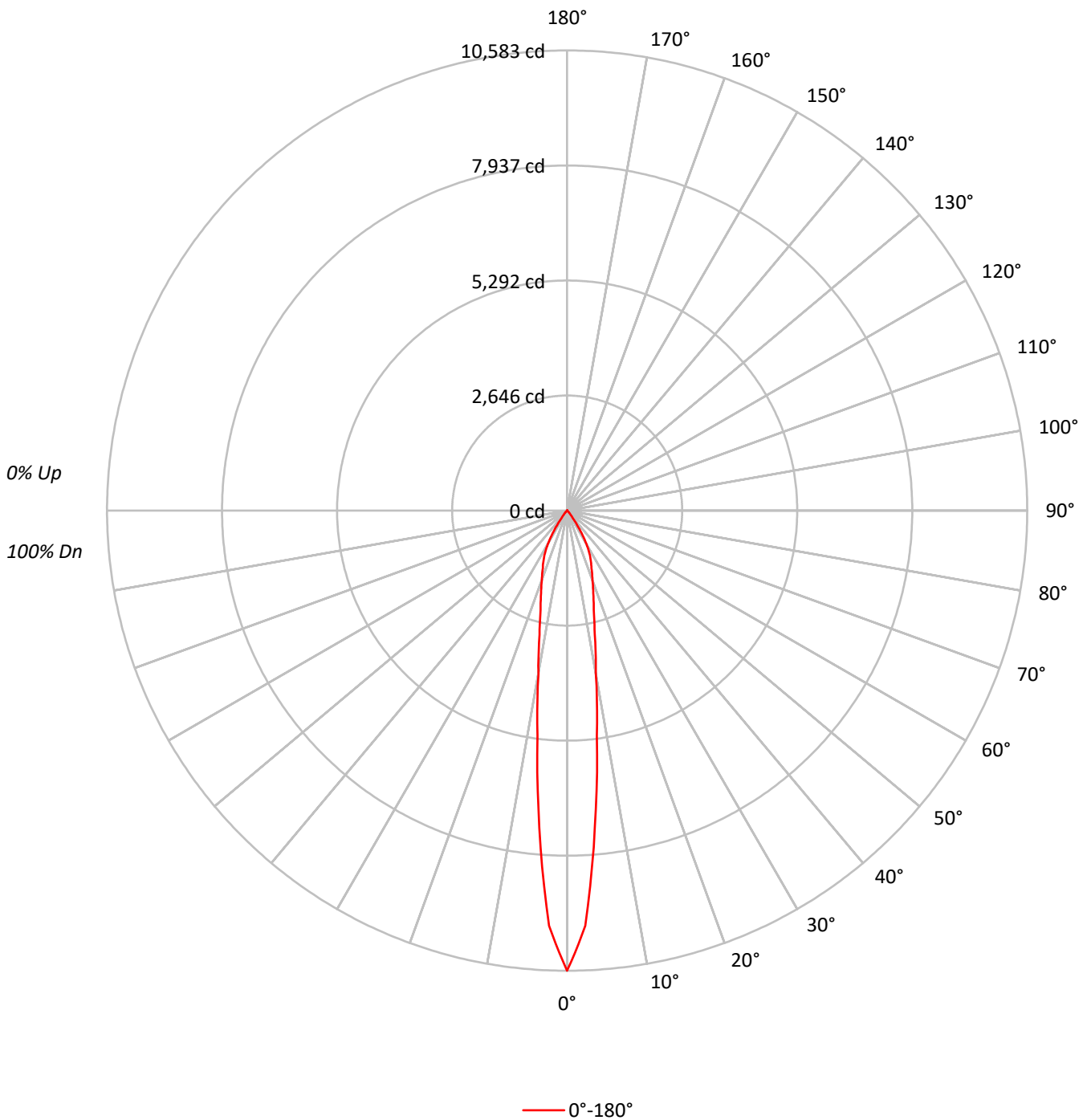
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	326328
5°	226652
10°	119267
15°	75462
20°	56078
25°	44088
30°	31743
35°	13623
40°	4746
45°	1823
50°	422
55°	156
60°	0
65°	212
70°	63
75°	179
80°	266
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.0	27.2
10°-20°	682.0	31.6
20°-30°	588.7	27.3
30°-40°	255.4	11.8
40°-50°	40.0	1.9
50°-60°	2.9	0.1
60°-70°	1.5	0.1
70°-80°	1.7	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°	1857.7	86.0
0°-40°	2113.1	97.8
0°-60°	2156.0	99.8
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10583	
5°	7322	587
15°	2364	682
25°	1296	589
35°	362	255
45°	42	40
55°	3	3
65°	3	2
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10582.6
2.5°	9556.3
5°	7322.2
7.5°	5222.1
10°	3809.0
12.5°	2922.7
15°	2363.8
17.5°	1988.0
20°	1708.9
22.5°	1470.9
25°	1295.8
27.5°	1111.2
30°	891.5
32.5°	619.7
35°	361.9
37.5°	202.2
40°	117.9
42.5°	73.3
45°	41.8
47.5°	33.7
50°	8.8
52.5°	4.4
55°	2.9
57.5°	1.5
60°	0.0
62.5°	0.7
65°	2.9
67.5°	2.2
70°	0.7
72.5°	3.7
75°	1.5
77.5°	0.0
80°	1.5
82.5°	0.7
85°	0.0
87.5°	1.5
90°	0.0

(END OF REPORT)