

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: P247017

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120850 8LBN0LI  
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: 11889.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

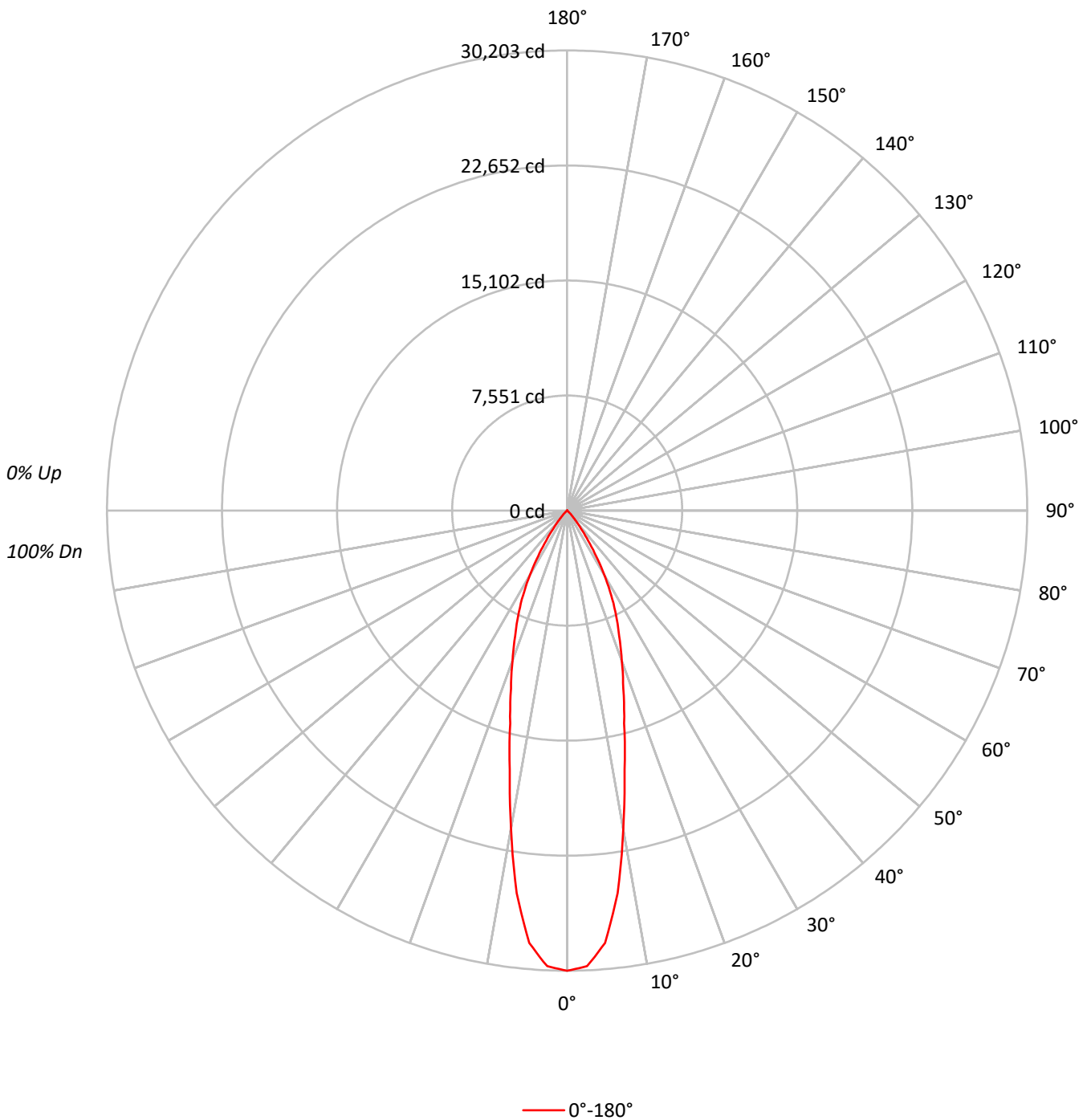
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85
4	101	94	90	86	99	93	89	85	91	87	84	89	86	83	87	85	83	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73
7	89	81	76	72	88	81	76	72	79	75	72	78	74	72	77	74	71	70
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67
9	82	74	69	66	81	74	69	66	73	69	65	72	68	65	71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61

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

	0°
0°	931340
5°	881786
10°	664093
15°	461591
20°	344095
25°	258998
30°	173187
35°	90651
40°	35013
45°	12948
50°	3291
55°	640
60°	93
65°	328
70°	406
75°	0
80°	0
85°	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2477.0	20.8
10°-20°	4096.5	34.5
20°-30°	3453.5	29.0
30°-40°	1567.1	13.2
40°-50°	273.6	2.3
50°-60°	14.8	0.1
60°-70°	2.2	0.0
70°-80°	2.5	0.0
80°-90°	1.6	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°	10027.1	84.3
0°-40°	11594.1	97.5
0°-60°	11882.6	99.9
0°-90°	11889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	30203	
5°	28487	###
15°	14459	4096
25°	7612	3454
35°	2408	1567
45°	297	274
55°	12	15
65°	4	2
75°	0	3
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	30202.7
2.5°	29935.6
5°	28486.9
7.5°	25331.3
10°	21208.9
12.5°	17398.3
15°	14459.0
17.5°	12250.9
20°	10485.8
22.5°	8932.6
25°	7612.2
27.5°	6269.4
30°	4863.9
32.5°	3540.5
35°	2408.1
37.5°	1478.6
40°	869.8
42.5°	510.3
45°	296.9
47.5°	177.5
50°	68.6
52.5°	10.4
55°	11.9
57.5°	10.4
60°	1.5
62.5°	1.5
65°	4.5
67.5°	0.0
70°	4.5
72.5°	7.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.5
87.5°	4.5
90°	0.0

(END OF REPORT)