

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: P249794

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10679.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

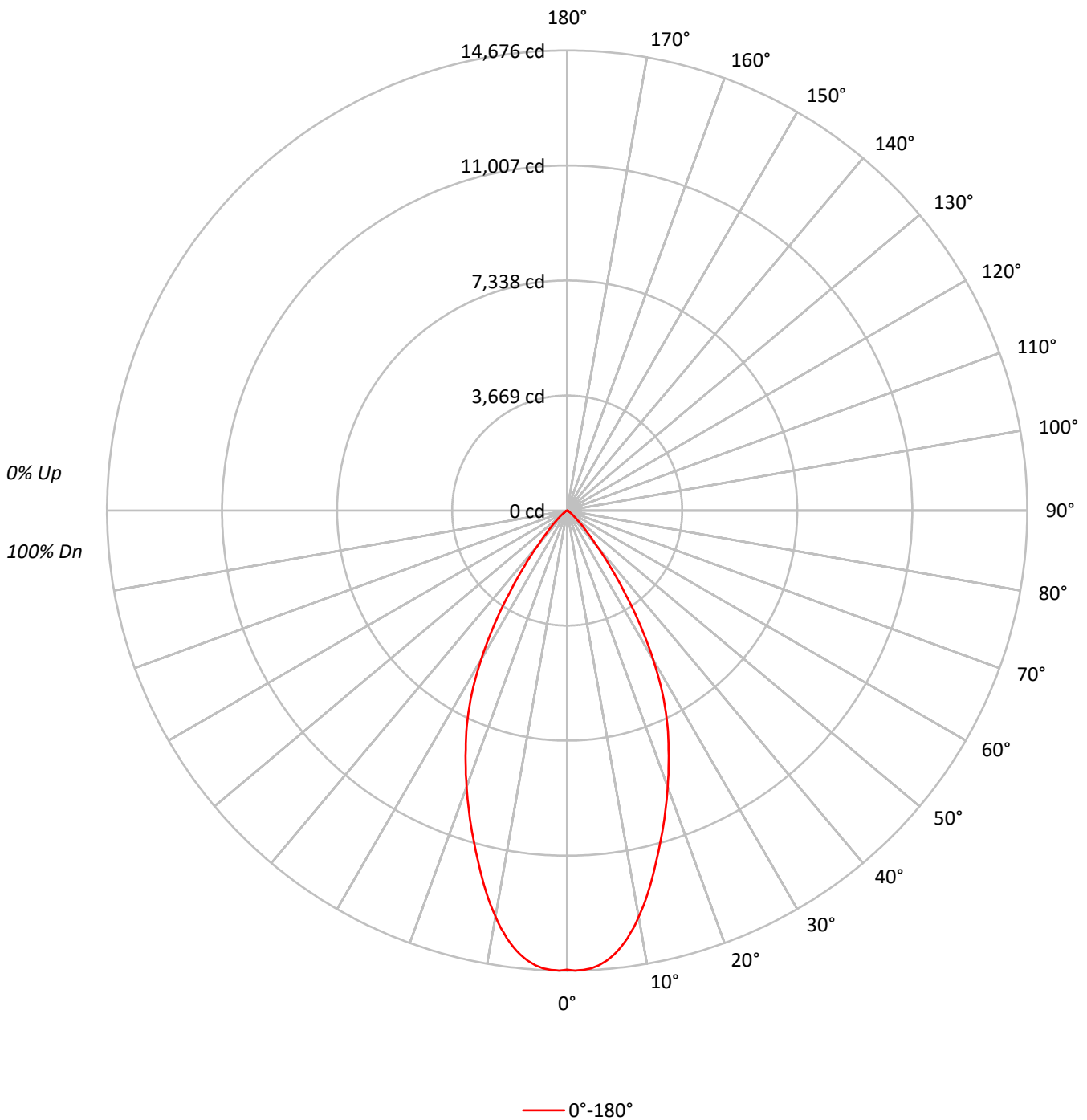
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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

	0°
0°	451656
5°	446111
10°	412003
15°	359258
20°	307739
25°	257597
30°	195976
35°	121485
40°	59934
45°	28525
50°	13869
55°	6801
60°	4237
65°	2904
70°	1632
75°	1287
80°	1279
85°	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1335.6	12.5
10°-20°	3135.7	29.4
20°-30°	3427.1	32.1
30°-40°	2039.4	19.1
40°-50°	559.4	5.2
50°-60°	126.7	1.2
60°-70°	39.2	0.4
70°-80°	11.9	0.1
80°-90°	3.9	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°	7898.4	74.0
0°-40°	9937.9	93.1
0°-60°	10624.0	99.5
0°-90°	10679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14647	
5°	14412	###
15°	11254	3136
25°	7571	3427
35°	3227	2039
45°	654	559
55°	126	127
65°	40	39
75°	11	12
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14646.9
1°	14675.9
2°	14657.8
3°	14621.6
4°	14538.5
5°	14412.0
6°	14249.4
7°	14032.6
8°	13779.6
9°	13486.9
10°	13158.0
11°	12807.5
12°	12431.7
13°	12045.0
14°	11643.8
15°	11253.5
16°	10870.5
17°	10494.6
18°	10118.8
19°	9742.9
20°	9377.9
22.5°	8460.0
25°	7571.0
27.5°	6591.7
30°	5503.9
32.5°	4336.6
35°	3227.2
37.5°	2244.2
40°	1488.9
42.5°	975.7
45°	654.1
47.5°	433.7
50°	289.1
52.5°	177.1
55°	126.5
57.5°	90.3
60°	68.7
62.5°	50.6
65°	39.8
67.5°	25.3
70°	18.1
72.5°	14.5
75°	10.8
77.5°	7.2
80°	7.2



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.6
85°	3.6
87.5°	3.6
90°	0.0

(END OF REPORT)