

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: P249850

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249850  
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 EC8B120950 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10240.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

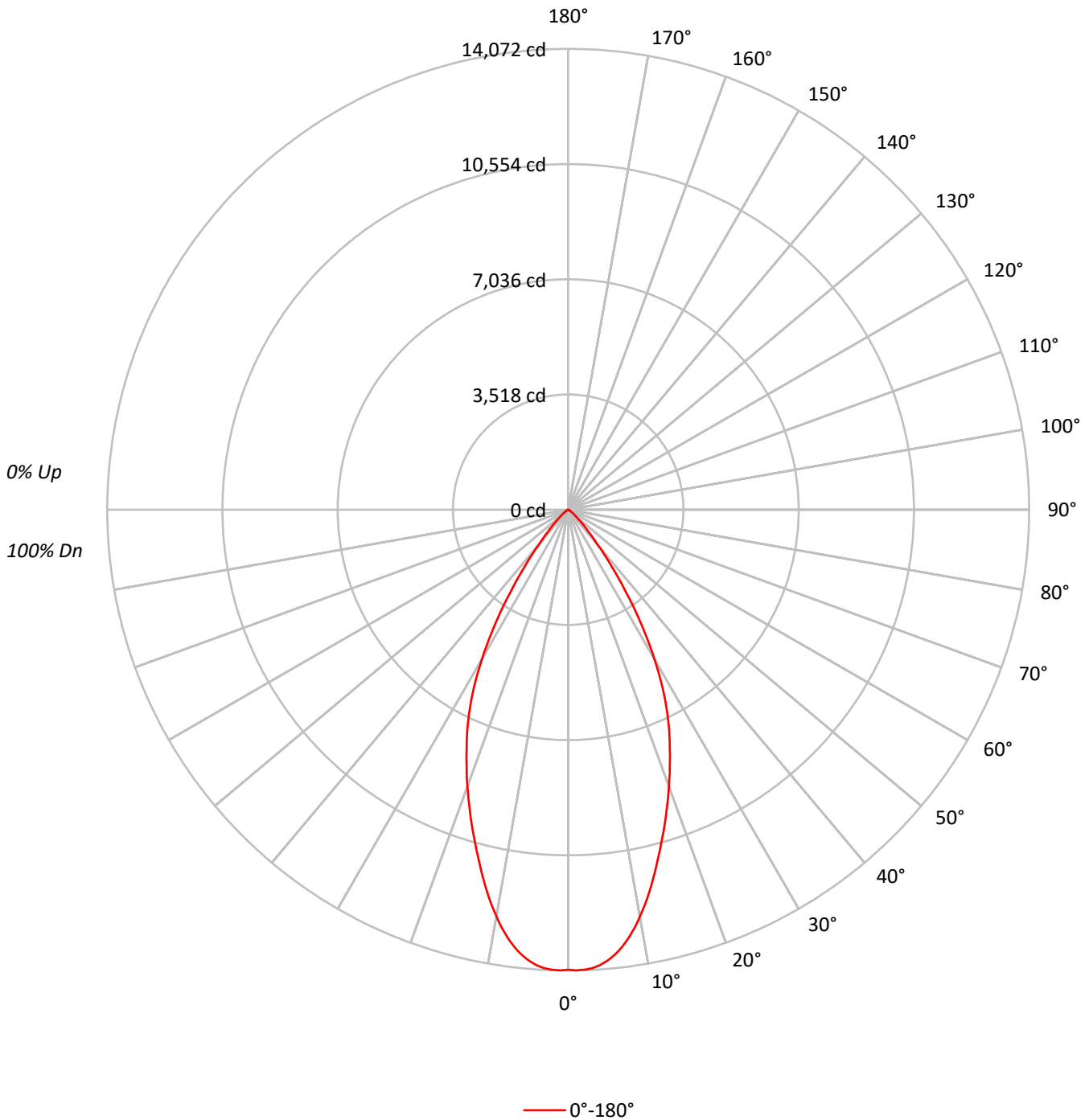
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	433090
5°	427773
10°	395067
15°	344490
20°	295088
25°	247008
30°	187918
35°	116490
40°	57471
45°	27352
50°	13298
55°	6521
60°	4058
65°	2780
70°	1560
75°	1239
80°	1225
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1280.7	12.5
10°-20°	3006.8	29.4
20°-30°	3286.3	32.1
30°-40°	1955.6	19.1
40°-50°	536.4	5.2
50°-60°	121.5	1.2
60°-70°	37.5	0.4
70°-80°	11.4	0.1
80°-90°	3.8	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°	7573.7	74.0
0°-40°	9529.3	93.1
0°-60°	10187.2	99.5
0°-90°	10240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14045	
5°	13820	###
15°	10791	3007
25°	7260	3286
35°	3094	1956
45°	627	536
55°	121	122
65°	38	38
75°	10	11
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14044.8
1°	14072.5
2°	14055.2
3°	14020.6
4°	13940.9
5°	13819.6
6°	13663.6
7°	13455.7
8°	13213.2
9°	12932.5
10°	12617.1
11°	12281.0
12°	11920.6
13°	11549.8
14°	11165.2
15°	10790.9
16°	10423.6
17°	10063.2
18°	9702.8
19°	9342.4
20°	8992.4
22.5°	8112.2
25°	7259.8
27.5°	6320.7
30°	5277.6
32.5°	4158.3
35°	3094.5
37.5°	2151.9
40°	1427.7
42.5°	935.6
45°	627.2
47.5°	415.8
50°	277.2
52.5°	169.8
55°	121.3
57.5°	86.6
60°	65.8
62.5°	48.5
65°	38.1
67.5°	24.3
70°	17.3
72.5°	13.9
75°	10.4
77.5°	6.9
80°	6.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.5
85°	3.5
87.5°	3.5
90°	0.0

(END OF REPORT)