

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: P249814

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249814  
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: LSR8B100D010 EC8B100850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9922.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

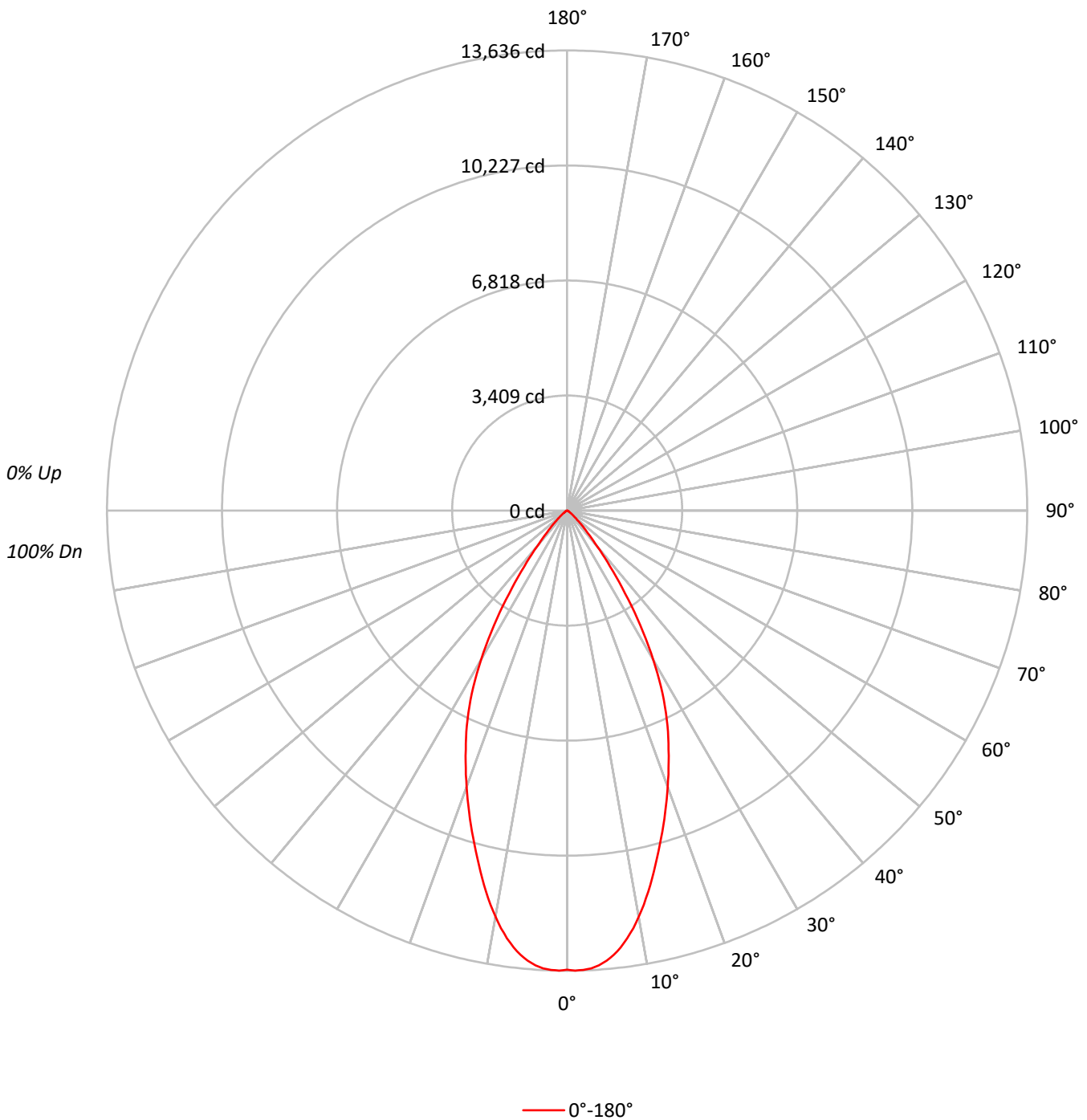
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	419642
5°	414488
10°	382799
15°	333792
20°	285926
25°	239336
30°	182082
35°	112872
40°	55687
45°	26501
50°	12885
55°	6317
60°	3935
65°	2692
70°	1515
75°	1203
80°	1190
85°	1203



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1241.0	12.5
10°-20°	2913.4	29.4
20°-30°	3184.2	32.1
30°-40°	1894.9	19.1
40°-50°	519.7	5.2
50°-60°	117.7	1.2
60°-70°	36.4	0.4
70°-80°	11.1	0.1
80°-90°	3.7	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°	7338.5	74.0
0°-40°	9233.4	93.1
0°-60°	9870.9	99.5
0°-90°	9922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13609	
5°	13390	###
15°	10456	2913
25°	7034	3184
35°	2998	1895
45°	608	520
55°	118	118
65°	37	36
75°	10	11
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13608.7
1°	13635.5
2°	13618.7
3°	13585.2
4°	13507.9
5°	13390.4
6°	13239.3
7°	13037.9
8°	12802.8
9°	12530.9
10°	12225.3
11°	11899.6
12°	11550.4
13°	11191.1
14°	10818.4
15°	10455.8
16°	10099.9
17°	9750.7
18°	9401.5
19°	9052.3
20°	8713.2
22.5°	7860.3
25°	7034.3
27.5°	6124.4
30°	5113.7
32.5°	4029.2
35°	2998.4
37.5°	2085.1
40°	1383.4
42.5°	906.6
45°	607.7
47.5°	402.9
50°	268.6
52.5°	164.5
55°	117.5
57.5°	83.9
60°	63.8
62.5°	47.0
65°	36.9
67.5°	23.5
70°	16.8
72.5°	13.4
75°	10.1
77.5°	6.7
80°	6.7



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.4
85°	3.4
87.5°	3.4
90°	0.0

(END OF REPORT)