

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: P250051

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90835 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8759.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

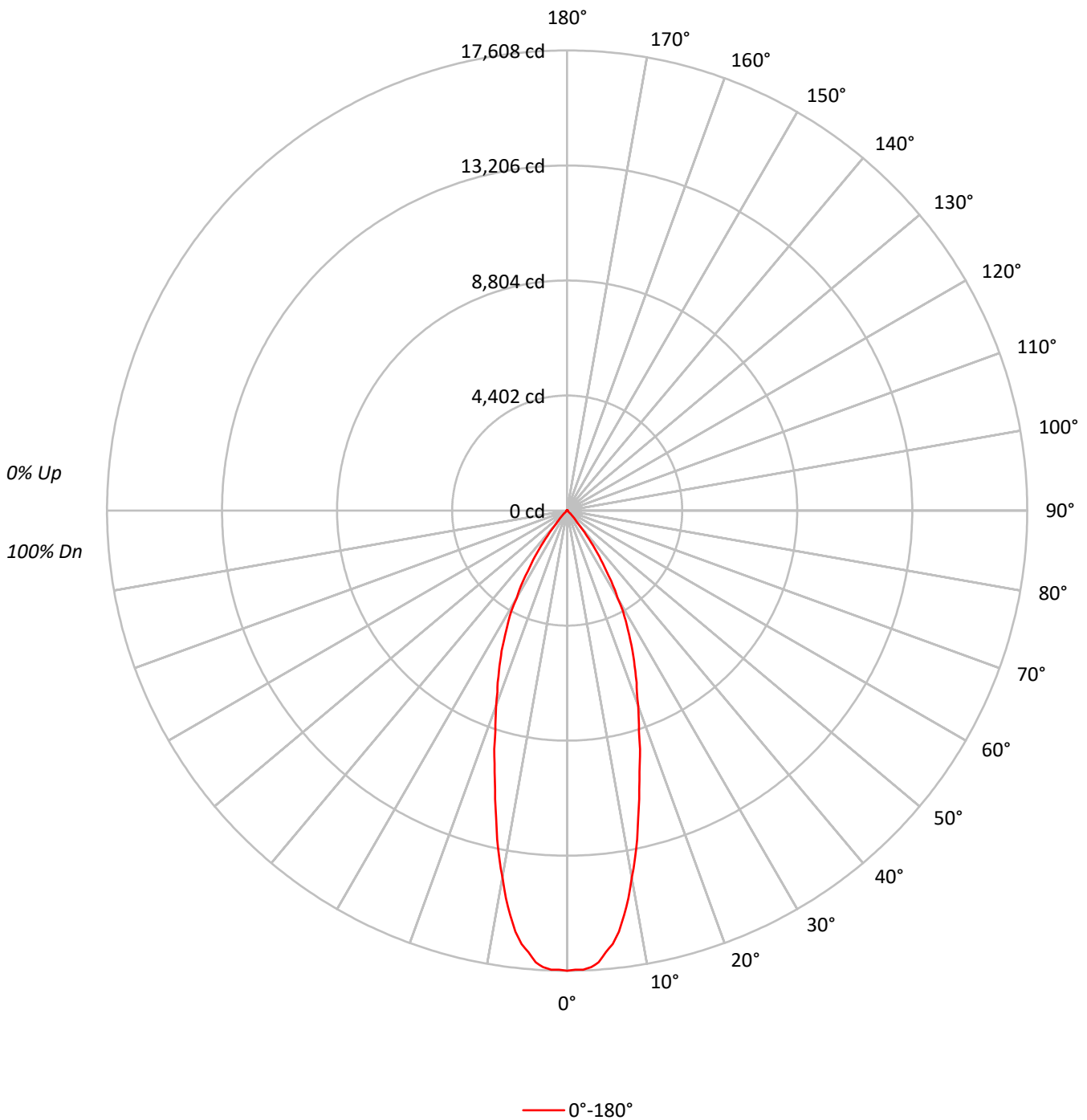
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

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

	0°
0°	542957
5°	525068
10°	446538
15°	340815
20°	260468
25°	201845
30°	137666
35°	80882
40°	24732
45°	9729
50°	149
55°	167
60°	191
65°	445
70°	829
75°	727
80°	550
85°	3255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1537.8	17.6
10°-20°	2979.9	34.0
20°-30°	2682.8	30.6
30°-40°	1327.3	15.2
40°-50°	201.9	2.3
50°-60°	8.3	0.1
60°-70°	10.7	0.1
70°-80°	4.0	0.0
80°-90°	6.3	0.1
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°	7200.5	82.2
0°-40°	8527.8	97.4
0°-60°	8738.1	99.8
0°-90°	8759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17608	
5°	16963	###
15°	10676	2980
25°	5932	2683
35°	2149	1327
45°	223	202
55°	3	8
65°	6	11
75°	6	4
85°	9	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	17607.7
1°	17571.1
2°	17580.1
3°	17491.5
4°	17329.6
5°	16962.8
6°	16681.6
7°	16235.4
8°	15636.4
9°	15012.8
10°	14260.9
11°	13588.6
12°	12867.3
13°	12069.6
14°	11381.9
15°	10675.8
16°	10073.7
17°	9542.0
18°	8887.9
19°	8408.0
20°	7937.4
21°	7448.3
22°	7090.7
23°	6675.1
24°	6293.0
25°	5932.4
26°	5507.5
27°	5125.6
28°	4783.2
29°	4407.2
30°	3866.3
31°	3560.7
32°	3175.5
33°	2753.7
34°	2432.8
35°	2148.6
37.5°	1360.0
40°	614.4
42.5°	418.7
45°	223.1
47.5°	125.3
50°	3.1
52.5°	12.3
55°	3.1
57.5°	18.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	3.1
62.5°	15.3
65°	6.1
67.5°	15.3
70°	9.2
72.5°	3.1
75°	6.1
77.5°	0.0
80°	3.1
82.5°	12.3
85°	9.2
87.5°	0.0
90°	0.0

(END OF REPORT)