

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: P249812

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249812  
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: LSR8B80D010 EC8B80850 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: 7635.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

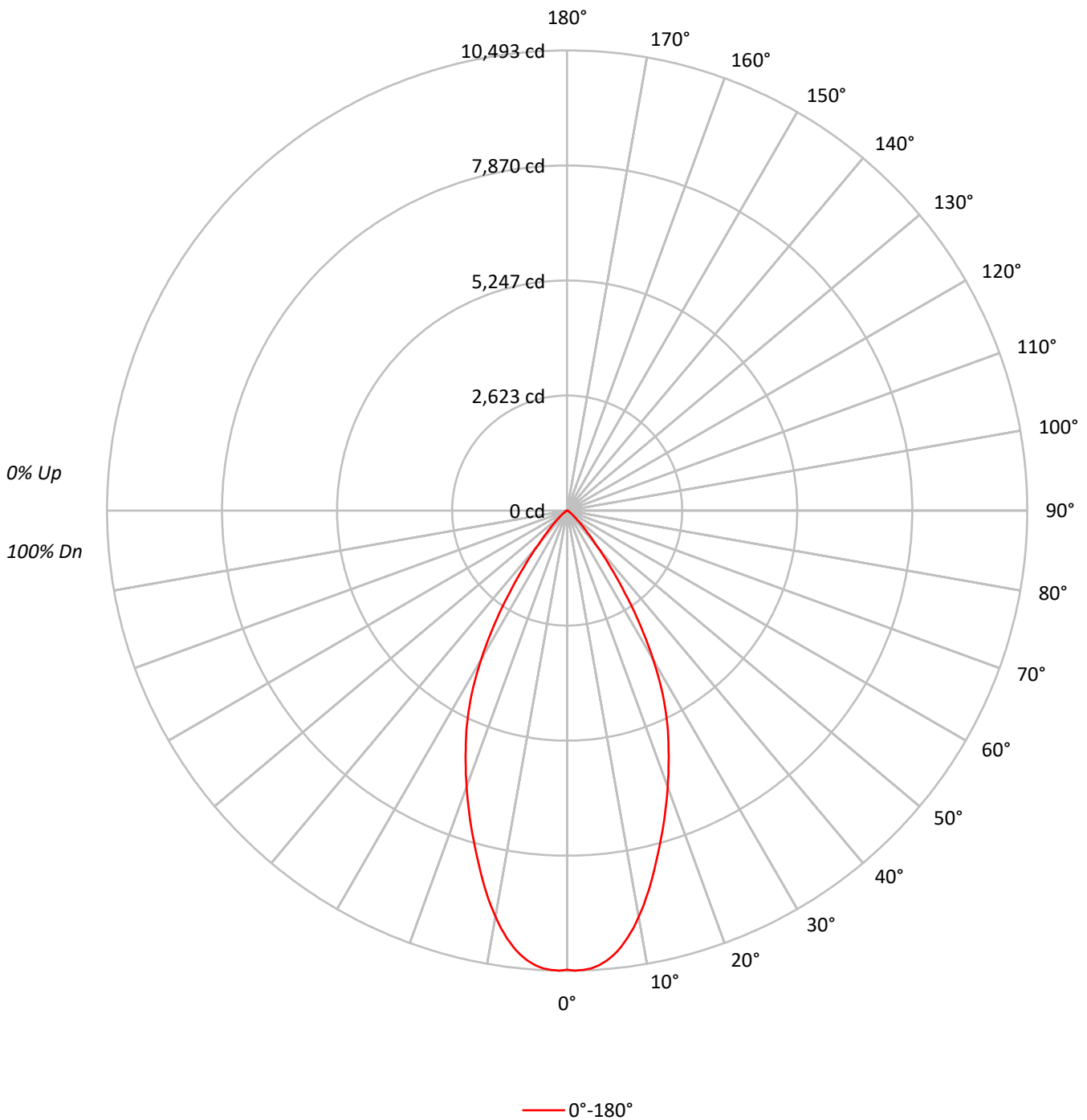
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	322915
5°	318951
10°	294565
15°	256855
20°	220020
25°	184169
30°	140112
35°	86856
40°	42850
45°	20396
50°	9916
55°	4860
60°	3028
65°	2072
70°	1163
75°	929
80°	923
85°	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	954.9	12.5
10°-20°	2241.9	29.4
20°-30°	2450.2	32.1
30°-40°	1458.1	19.1
40°-50°	399.9	5.2
50°-60°	90.6	1.2
60°-70°	28.0	0.4
70°-80°	8.5	0.1
80°-90°	2.8	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°	5647.0	74.0
0°-40°	7105.1	93.1
0°-60°	7595.7	99.5
0°-90°	7635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7635.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10472	
5°	10304	955
15°	8046	2242
25°	5413	2450
35°	2307	1458
45°	468	400
55°	90	91
65°	28	28
75°	8	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10471.9
1°	10492.6
2°	10479.7
3°	10453.8
4°	10394.4
5°	10304.0
6°	10187.7
7°	10032.7
8°	9851.8
9°	9642.5
10°	9407.4
11°	9156.8
12°	8888.1
13°	8611.6
14°	8324.8
15°	8045.8
16°	7771.9
17°	7503.2
18°	7234.5
19°	6965.8
20°	6704.8
22.5°	6048.5
25°	5412.9
27.5°	4712.7
30°	3935.0
32.5°	3100.5
35°	2307.3
37.5°	1604.5
40°	1064.5
42.5°	697.6
45°	467.7
47.5°	310.0
50°	206.7
52.5°	126.6
55°	90.4
57.5°	64.6
60°	49.1
62.5°	36.2
65°	28.4
67.5°	18.1
70°	12.9
72.5°	10.3
75°	7.8
77.5°	5.2
80°	5.2



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0

(END OF REPORT)