

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: P250652

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80850 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7836.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

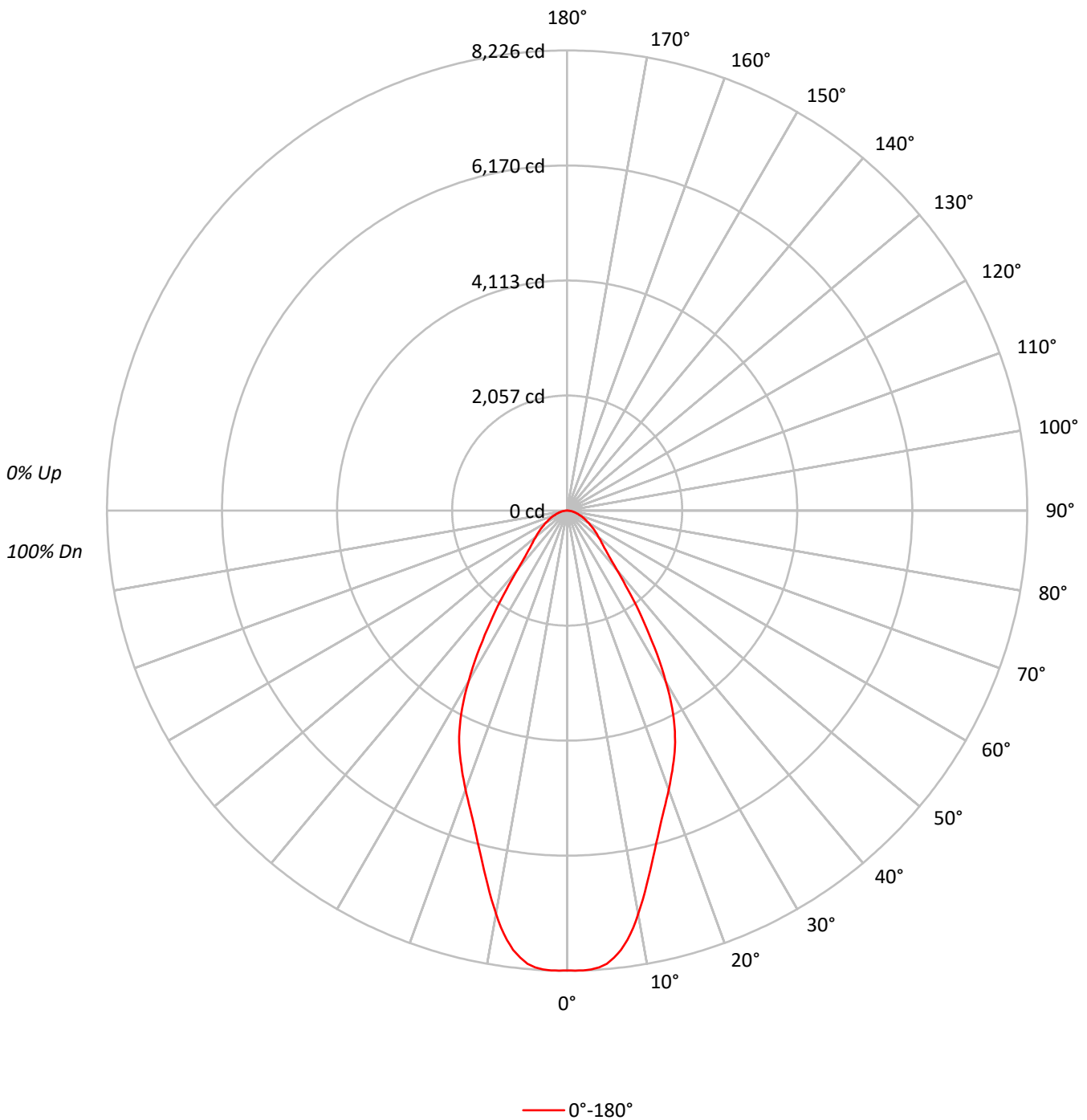
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

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

	0°
0°	253505
5°	251688
10°	229310
15°	196598
20°	174187
25°	155426
30°	125528
35°	87158
40°	55257
45°	40997
50°	35025
55°	30784
60°	27444
65°	24626
70°	21196
75°	19373
80°	18202
85°	15921



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	750.5	9.6
10°-20°	1731.6	22.1
20°-30°	2063.8	26.3
30°-40°	1456.8	18.6
40°-50°	752.3	9.6
50°-60°	516.3	6.6
60°-70°	335.6	4.3
70°-80°	175.7	2.2
80°-90°	53.4	0.7
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°	4545.9	58.0
0°-40°	6002.7	76.6
0°-60°	7271.3	92.8
0°-90°	7836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7836.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8221	
5°	8131	750
15°	6158	1732
25°	4568	2064
35°	2315	1457
45°	940	752
55°	573	516
65°	338	336
75°	163	176
85°	45	53
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8221.0
1°	8226.0
2°	8226.0
3°	8213.5
4°	8186.0
5°	8131.0
6°	8033.5
7°	7913.5
8°	7748.4
9°	7548.5
10°	7323.4
11°	7085.9
12°	6838.3
13°	6600.8
14°	6370.8
15°	6158.3
16°	5960.7
17°	5778.2
18°	5613.2
19°	5458.1
20°	5308.1
21°	5160.6
22°	5015.6
23°	4870.6
24°	4723.1
25°	4568.1
26°	4393.0
27°	4203.0
28°	3995.5
29°	3775.5
30°	3525.4
31°	3282.9
32°	3035.3
33°	2780.3
34°	2545.3
35°	2315.3
37.5°	1782.8
40°	1372.7
42.5°	1105.2
45°	940.1
47.5°	822.6
50°	730.1
52.5°	650.1
55°	572.6
57.5°	502.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	445.0
62.5°	387.6
65°	337.5
67.5°	292.5
70°	235.1
72.5°	202.6
75°	162.6
77.5°	132.5
80°	102.5
82.5°	75.0
85°	45.0
87.5°	25.0
90°	0.0

(END OF REPORT)