

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: P244320

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B10840 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1038.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

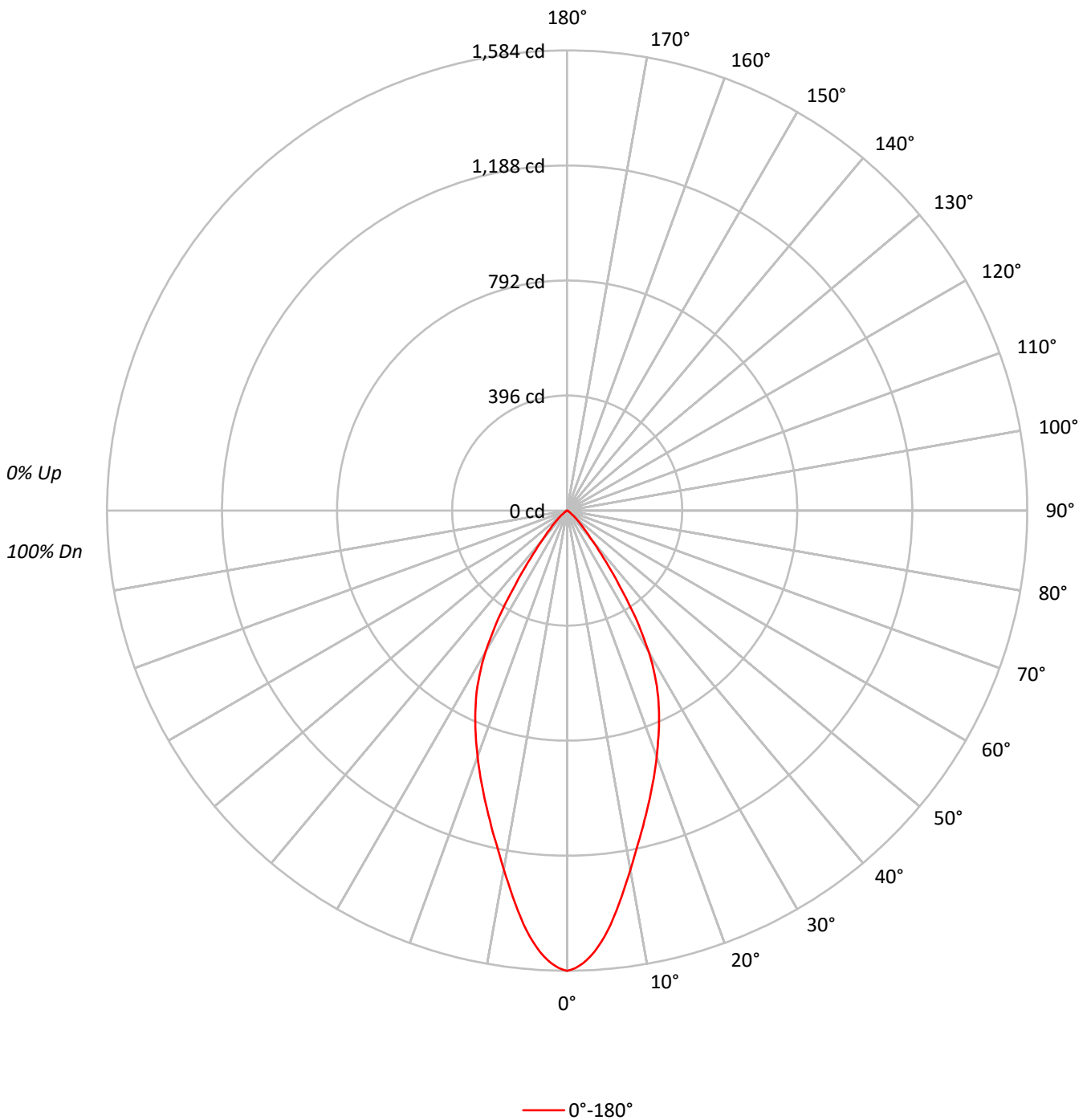
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	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	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	48860
5°	45574
10°	39284
15°	33999
20°	29576
25°	25416
30°	19972
35°	11651
40°	5378
45°	2782
50°	1396
55°	677
60°	345
65°	204
70°	99
75°	83
80°	71
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	12.8
10°-20°	297.8	28.7
20°-30°	338.6	32.6
30°-40°	198.8	19.2
40°-50°	53.4	5.1
50°-60°	12.6	1.2
60°-70°	2.9	0.3
70°-80°	0.7	0.1
80°-90°	0.1	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°	769.6	74.1
0°-40°	968.4	93.3
0°-60°	1034.4	99.6
0°-90°	1038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1584	
5°	1472	133
15°	1065	298
25°	747	339
35°	310	199
45°	64	53
55°	13	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1584.5
1°	1575.8
2°	1559.6
3°	1536.8
4°	1507.4
5°	1472.3
6°	1432.7
7°	1387.9
8°	1343.0
9°	1297.8
10°	1254.6
11°	1212.6
12°	1173.0
13°	1136.2
14°	1099.3
15°	1065.0
16°	1031.3
17°	998.0
18°	965.8
19°	933.2
20°	901.3
21°	869.4
22°	838.9
23°	808.7
24°	777.9
25°	747.0
26°	715.1
27°	680.4
28°	644.0
29°	604.0
30°	560.9
32.5°	439.9
35°	309.5
37.5°	204.0
40°	133.6
42.5°	92.2
45°	63.8
47.5°	43.8
50°	29.1
52.5°	18.9
55°	12.6
57.5°	8.4
60°	5.6
62.5°	3.9
65°	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.8
70°	1.1
72.5°	0.7
75°	0.7
77.5°	0.4
80°	0.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)