

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: P244302

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244302  
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 EC8B10827 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 981.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

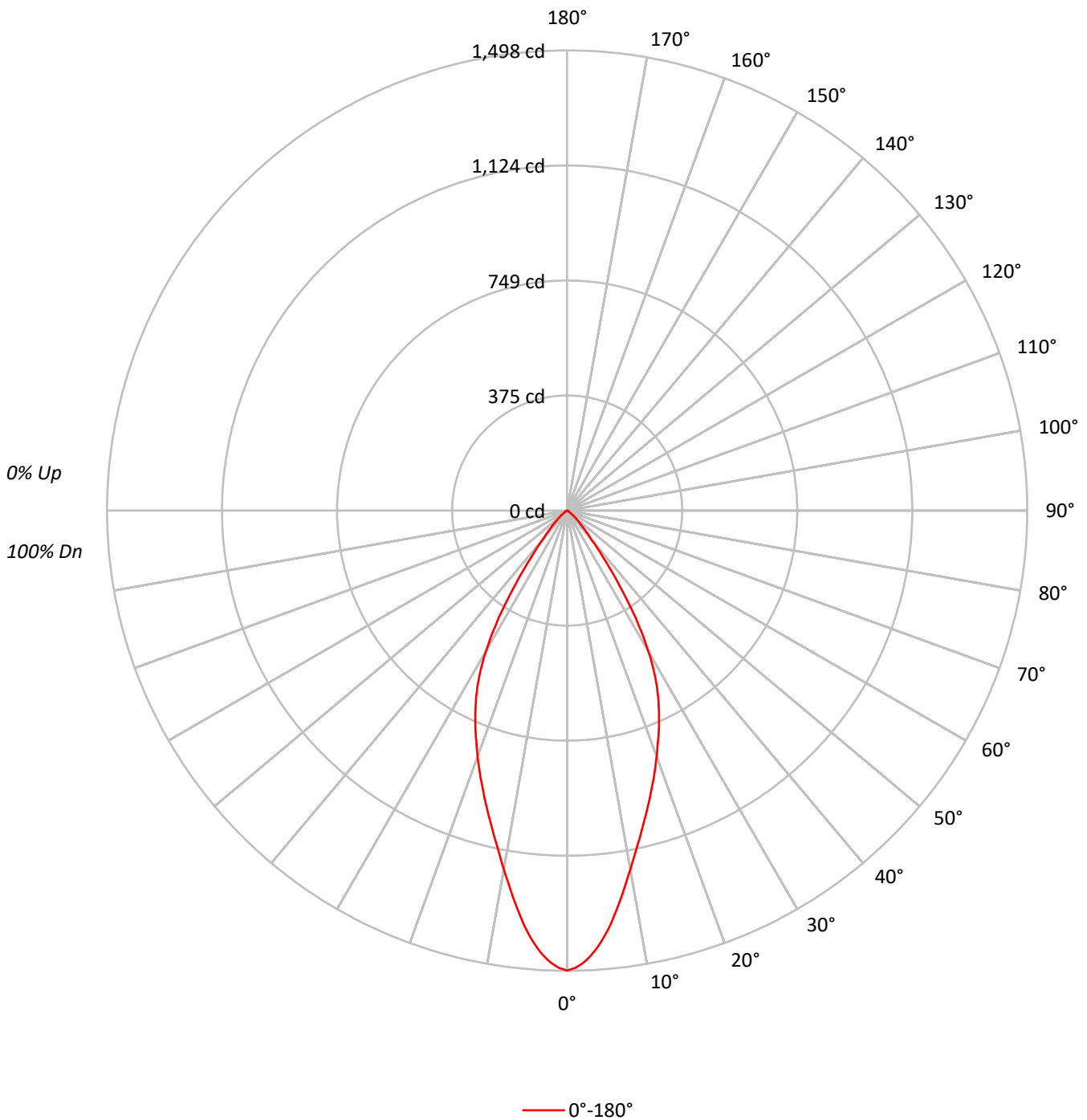
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	46177
5°	43073
10°	37127
15°	32132
20°	27952
25°	24021
30°	18875
35°	11011
40°	5080
45°	2630
50°	1319
55°	640
60°	327
65°	197
70°	90
75°	83
80°	53
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	12.8
10°-20°	281.4	28.7
20°-30°	320.0	32.6
30°-40°	187.9	19.2
40°-50°	50.4	5.1
50°-60°	12.0	1.2
60°-70°	2.7	0.3
70°-80°	0.6	0.1
80°-90°	0.0	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°	727.3	74.1
0°-40°	915.2	93.3
0°-60°	977.6	99.7
0°-90°	981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1498	
5°	1392	126
15°	1006	281
25°	706	320
35°	292	188
45°	60	50
55°	12	12
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1497.5
1°	1489.2
2°	1474.0
3°	1452.4
4°	1424.6
5°	1391.5
6°	1354.0
7°	1311.6
8°	1269.2
9°	1226.5
10°	1185.7
11°	1146.0
12°	1108.6
13°	1073.8
14°	1039.0
15°	1006.5
16°	974.7
17°	943.2
18°	912.7
19°	881.9
20°	851.8
21°	821.6
22°	792.8
23°	764.3
24°	735.2
25°	706.0
26°	675.9
27°	643.1
28°	608.6
29°	570.8
30°	530.1
32.5°	415.8
35°	292.5
37.5°	192.8
40°	126.2
42.5°	87.1
45°	60.3
47.5°	41.4
50°	27.5
52.5°	17.9
55°	11.9
57.5°	8.0
60°	5.3
62.5°	3.6
65°	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.7
70°	1.0
72.5°	0.7
75°	0.7
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)