

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: P244351

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244351  
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: LSR8B15D010 EC8B15940 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1261.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

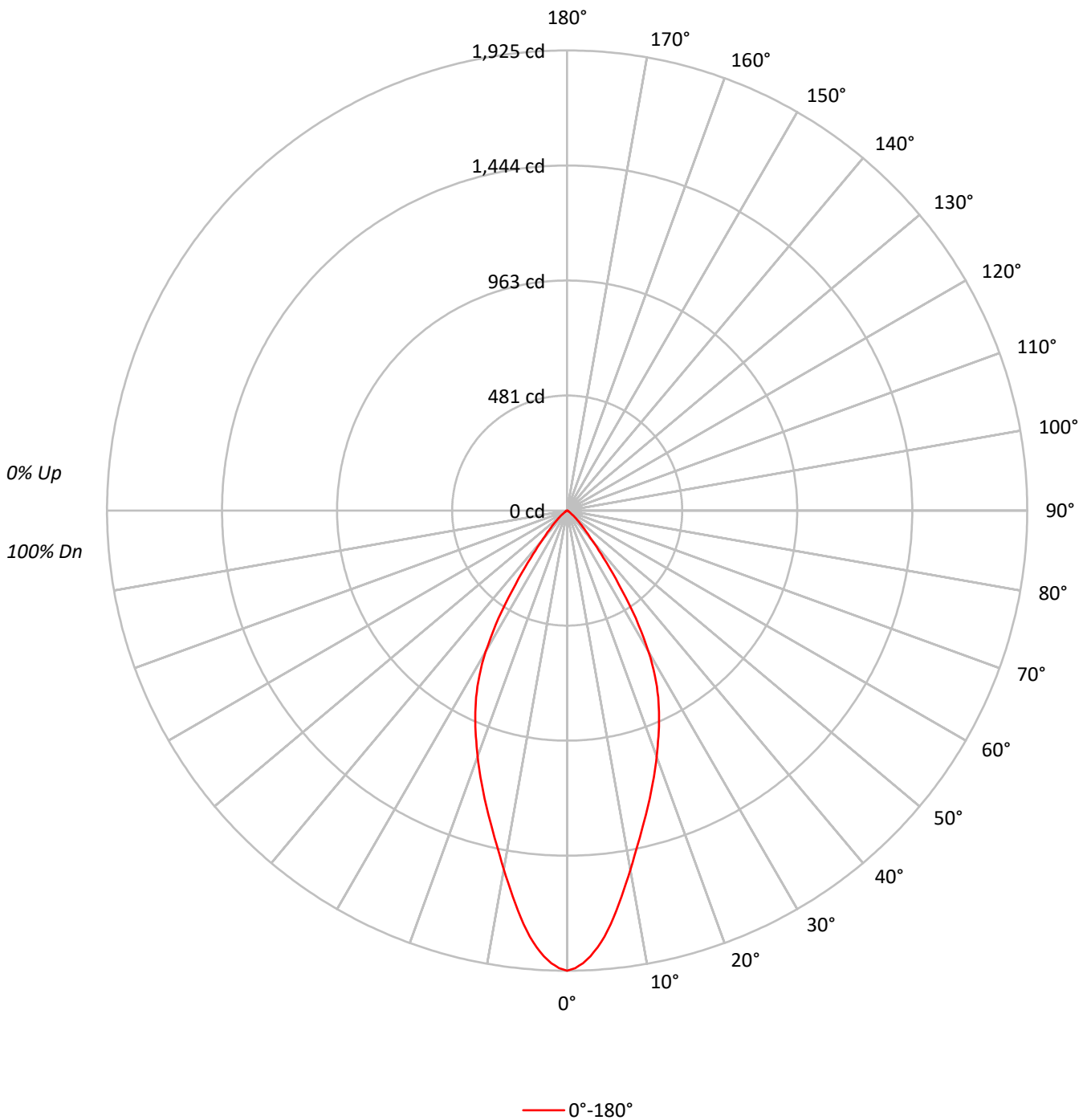
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	59357
5°	55368
10°	47726
15°	41303
20°	35929
25°	30877
30°	24262
35°	14154
40°	6533
45°	3380
50°	1693
55°	823
60°	419
65°	248
70°	117
75°	107
80°	71
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	12.8
10°-20°	361.7	28.7
20°-30°	411.3	32.6
30°-40°	241.6	19.2
40°-50°	64.8	5.1
50°-60°	15.4	1.2
60°-70°	3.5	0.3
70°-80°	0.8	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°	934.9	74.1
0°-40°	1176.5	93.3
0°-60°	1256.6	99.7
0°-90°	1261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1925	
5°	1789	162
15°	1294	362
25°	908	411
35°	376	242
45°	78	65
55°	15	15
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1924.9
1°	1914.3
2°	1894.7
3°	1867.0
4°	1831.2
5°	1788.7
6°	1740.5
7°	1686.0
8°	1631.5
9°	1576.6
10°	1524.2
11°	1473.1
12°	1425.0
13°	1380.2
14°	1335.5
15°	1293.8
16°	1252.9
17°	1212.4
18°	1173.3
19°	1133.7
20°	1094.9
21°	1056.2
22°	1019.1
23°	982.5
24°	945.0
25°	907.5
26°	868.8
27°	826.6
28°	782.3
29°	733.8
30°	681.4
32.5°	534.5
35°	376.0
37.5°	247.9
40°	162.3
42.5°	112.0
45°	77.5
47.5°	53.2
50°	35.3
52.5°	23.0
55°	15.3
57.5°	10.2
60°	6.8
62.5°	4.7
65°	3.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2.1
70°	1.3
72.5°	0.9
75°	0.9
77.5°	0.4
80°	0.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)