

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: P244309

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244309  
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 EC8B15830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1362.1 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

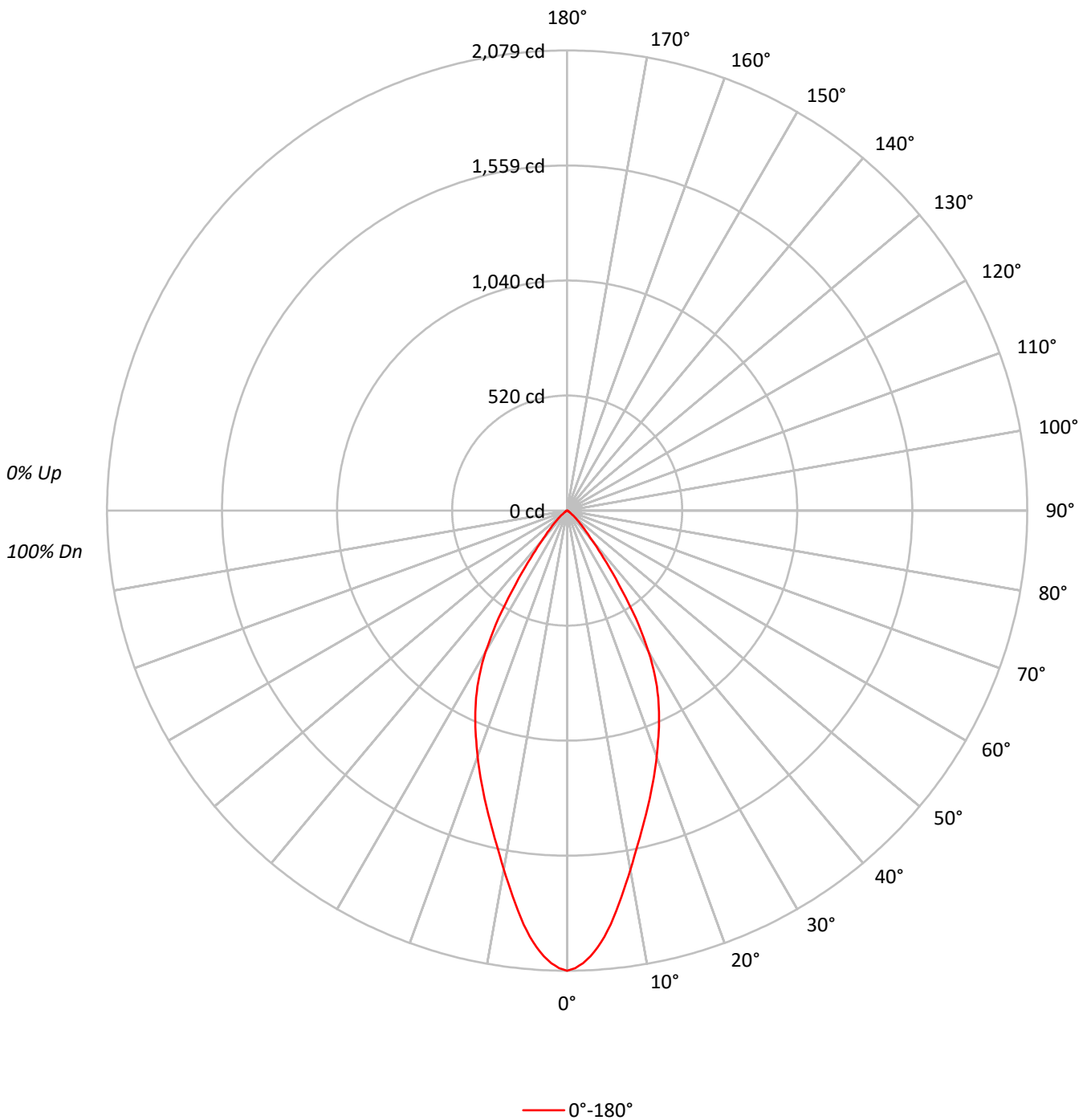
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	64112
5°	59800
10°	51549
15°	44611
20°	38807
25°	33350
30°	26207
35°	15291
40°	7057
45°	3650
50°	1833
55°	892
60°	456
65°	270
70°	126
75°	107
80°	89
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.8	12.8
10°-20°	390.7	28.7
20°-30°	444.2	32.6
30°-40°	260.9	19.2
40°-50°	70.0	5.1
50°-60°	16.6	1.2
60°-70°	3.8	0.3
70°-80°	0.9	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°	1009.8	74.1
0°-40°	1270.7	93.3
0°-60°	1357.3	99.7
0°-90°	1362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2079	
5°	1932	175
15°	1397	391
25°	980	444
35°	406	261
45°	84	70
55°	17	17
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2079.1
1°	2067.6
2°	2046.4
3°	2016.5
4°	1977.9
5°	1931.9
6°	1879.9
7°	1821.1
8°	1762.2
9°	1702.8
10°	1646.3
11°	1591.1
12°	1539.1
13°	1490.8
14°	1442.5
15°	1397.4
16°	1353.3
17°	1309.6
18°	1267.2
19°	1224.5
20°	1182.6
21°	1140.7
22°	1100.7
23°	1061.2
24°	1020.7
25°	980.2
26°	938.4
27°	892.8
28°	845.0
29°	792.5
30°	736.0
32.5°	577.3
35°	406.2
37.5°	267.7
40°	175.3
42.5°	121.0
45°	83.7
47.5°	57.5
50°	38.2
52.5°	24.8
55°	16.6
57.5°	11.0
60°	7.4
62.5°	5.1
65°	3.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2.3
70°	1.4
72.5°	0.9
75°	0.9
77.5°	0.5
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)