

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: P243823

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B15D010 EC8B15850 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1648.1 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

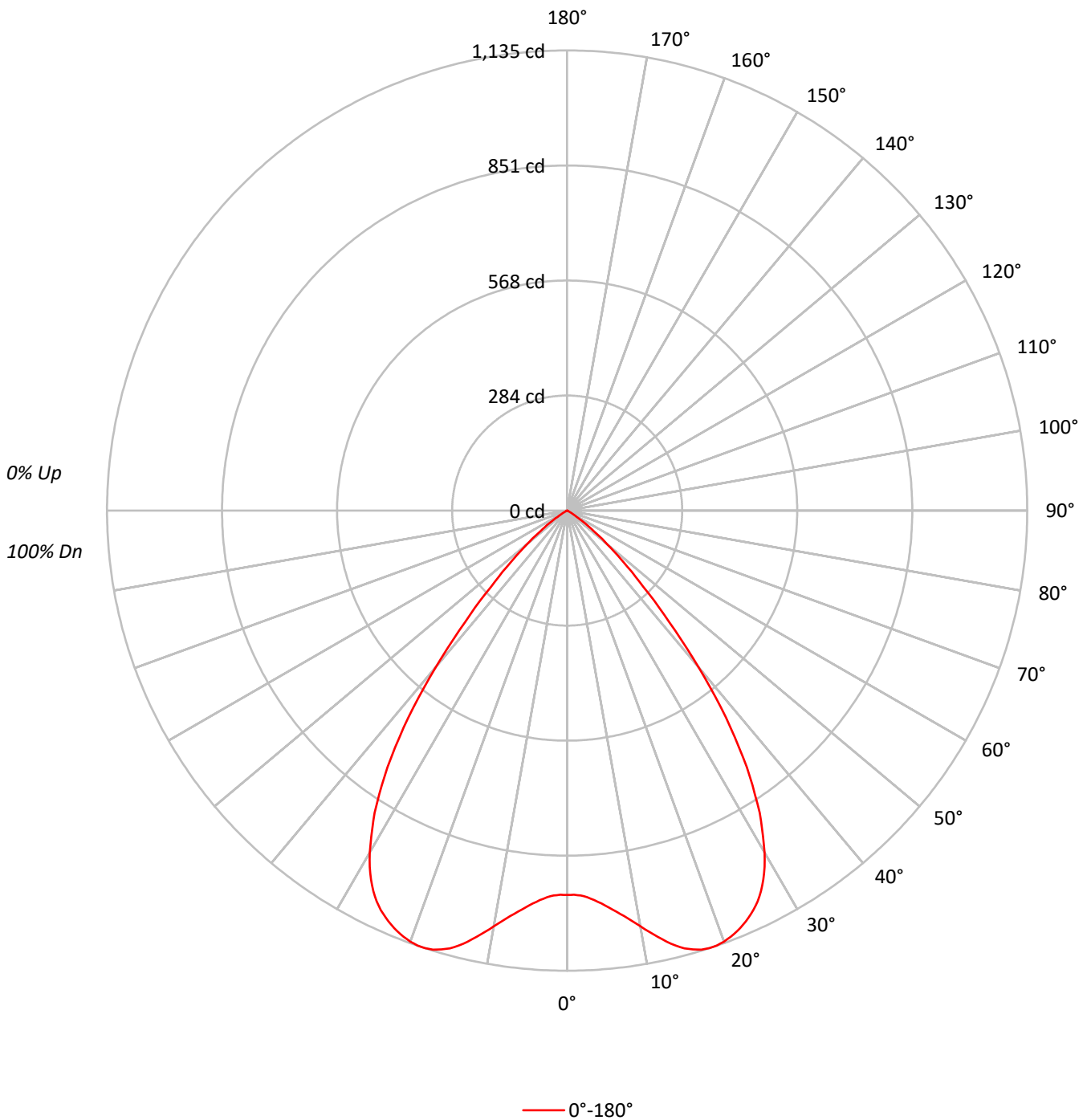
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

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

	0°
0°	29239
5°	30106
10°	32611
15°	35682
20°	37124
25°	36988
30°	34695
35°	29091
40°	20256
45°	11600
50°	6232
55°	2570
60°	641
65°	168
70°	81
75°	60
80°	89
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	5.8
10°-20°	315.0	19.1
20°-30°	495.7	30.1
30°-40°	471.5	28.6
40°-50°	217.4	13.2
50°-60°	49.4	3.0
60°-70°	3.3	0.2
70°-80°	0.7	0.0
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°	905.8	55.0
0°-40°	1377.3	83.6
0°-60°	1644.1	99.8
0°-90°	1648.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	948	
5°	973	95
15°	1118	315
25°	1087	496
35°	773	472
45°	266	217
55°	48	49
65°	2	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	948.2
1°	947.8
2°	949.6
3°	955.0
4°	963.1
5°	972.6
6°	984.3
7°	996.9
8°	1010.0
9°	1025.3
10°	1041.5
11°	1057.8
12°	1074.9
13°	1091.1
14°	1106.0
15°	1117.7
16°	1126.3
17°	1132.2
18°	1134.9
19°	1134.4
20°	1131.3
21°	1125.9
22°	1119.1
23°	1110.1
24°	1099.7
25°	1087.1
26°	1072.2
27°	1053.3
28°	1030.7
29°	1004.6
30°	974.4
32.5°	883.7
35°	772.8
37.5°	643.9
40°	503.2
42.5°	372.0
45°	266.0
47.5°	188.5
50°	129.9
52.5°	83.0
55°	47.8
57.5°	23.9
60°	10.4
62.5°	4.1
65°	2.3



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)