

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: P243822

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243822  
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: LSR8B10D010 EC8B10850 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: 1217.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

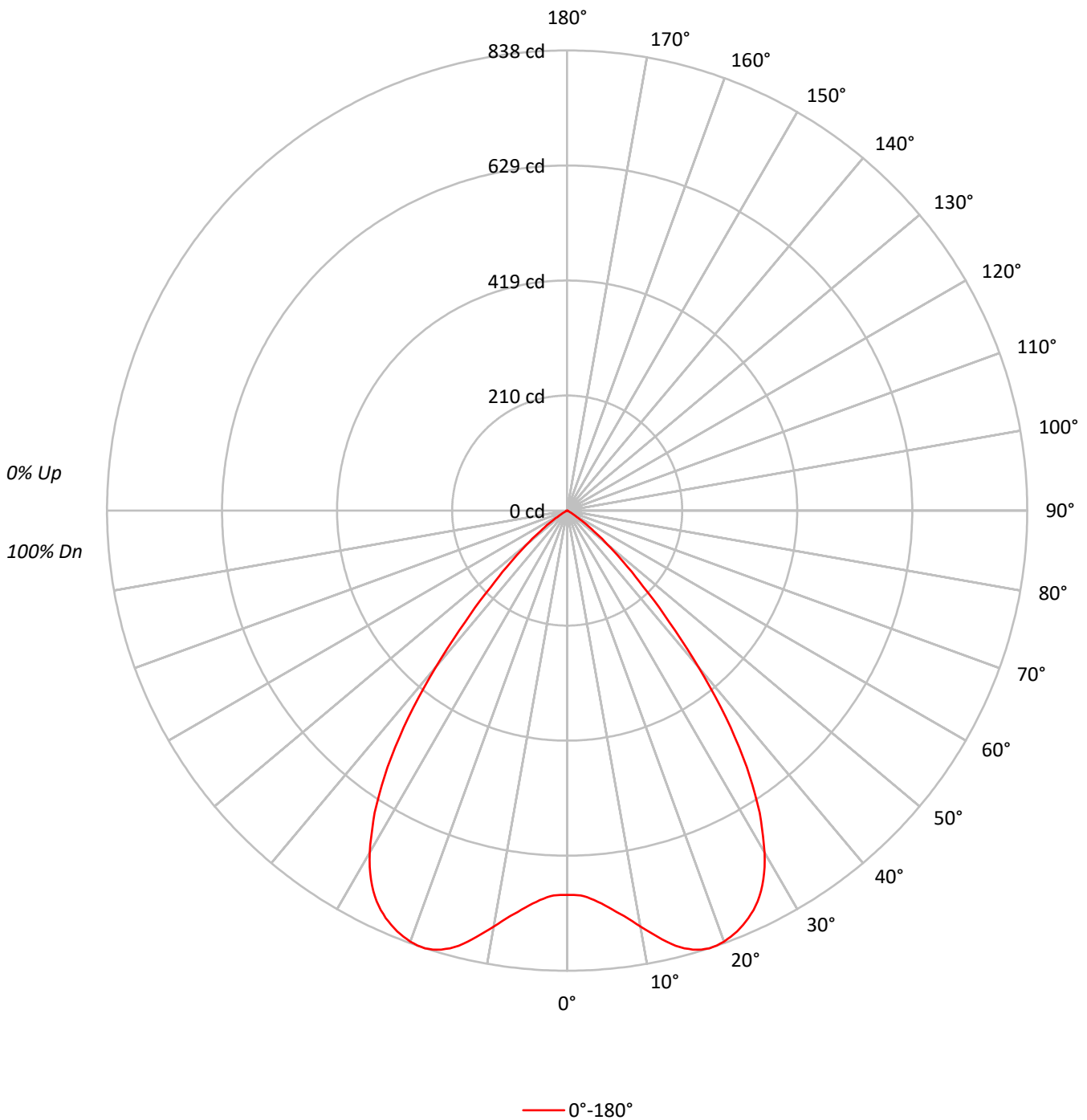
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	21592
5°	22231
10°	24082
15°	26350
20°	27414
25°	27315
30°	25619
35°	21484
40°	14958
45°	8565
50°	4601
55°	1898
60°	475
65°	124
70°	63
75°	36
80°	53
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	5.8
10°-20°	232.6	19.1
20°-30°	366.0	30.1
30°-40°	348.2	28.6
40°-50°	160.5	13.2
50°-60°	36.5	3.0
60°-70°	2.4	0.2
70°-80°	0.5	0.0
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°	668.9	55.0
0°-40°	1017.1	83.6
0°-60°	1214.1	99.8
0°-90°	1217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	700	
5°	718	70
15°	825	233
25°	803	366
35°	571	348
45°	196	161
55°	35	36
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	700.2
1°	699.9
2°	701.2
3°	705.2
4°	711.2
5°	718.2
6°	726.9
7°	736.2
8°	745.8
9°	757.2
10°	769.1
11°	781.1
12°	793.8
13°	805.8
14°	816.8
15°	825.4
16°	831.7
17°	836.1
18°	838.1
19°	837.7
20°	835.4
21°	831.4
22°	826.4
23°	819.8
24°	812.1
25°	802.8
26°	791.8
27°	777.8
28°	761.2
29°	741.8
30°	719.5
32.5°	652.6
35°	570.7
37.5°	475.5
40°	371.6
42.5°	274.7
45°	196.4
47.5°	139.2
50°	95.9
52.5°	61.3
55°	35.3
57.5°	17.6
60°	7.7
62.5°	3.0
65°	1.7



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)