

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: P247063

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25264)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90850 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: 10171.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

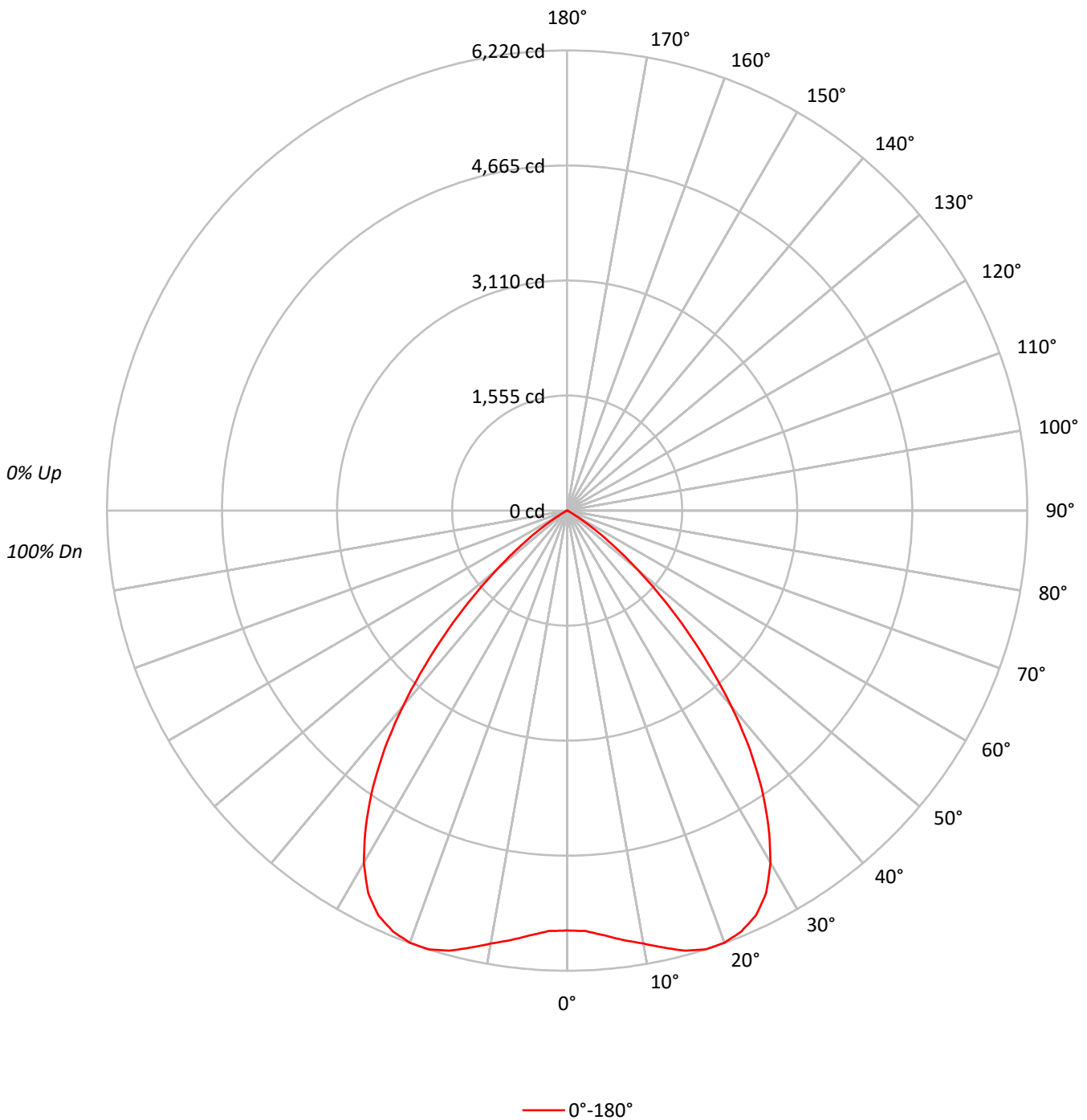
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	56	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	175015
5°	178429
10°	186084
15°	196598
20°	203967
25°	205448
30°	195734
35°	172648
40°	139178
45°	98814
50°	59386
55°	26757
60°	6895
65°	1488
70°	730
75°	488
80°	249
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.0	5.5
10°-20°	1741.1	17.1
20°-30°	2753.4	27.1
30°-40°	2829.2	27.8
40°-50°	1755.0	17.3
50°-60°	497.6	4.9
60°-70°	33.6	0.3
70°-80°	4.5	0.0
80°-90°	0.6	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°	5050.6	49.7
0°-40°	7879.8	77.5
0°-60°	10132.3	99.6
0°-90°	10171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5676	
5°	5764	556
15°	6158	1741
25°	6038	2753
35°	4586	2829
45°	2266	1755
55°	498	498
65°	20	34
75°	4	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5675.6
2.5°	5686.5
5°	5764.3
7.5°	5855.6
10°	5942.9
12.5°	6050.6
15°	6158.3
17.5°	6219.6
20°	6215.6
22.5°	6155.5
25°	6038.3
27.5°	5825.6
30°	5497.1
32.5°	5064.9
35°	4586.3
37.5°	4045.1
40°	3457.5
42.5°	2846.6
45°	2265.9
47.5°	1726.1
50°	1237.9
52.5°	833.1
55°	497.7
57.5°	256.3
60°	111.8
62.5°	45.0
65°	20.4
67.5°	12.3
70°	8.1
72.5°	5.5
75°	4.1
77.5°	2.8
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)