

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: P249941

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209727 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8347.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

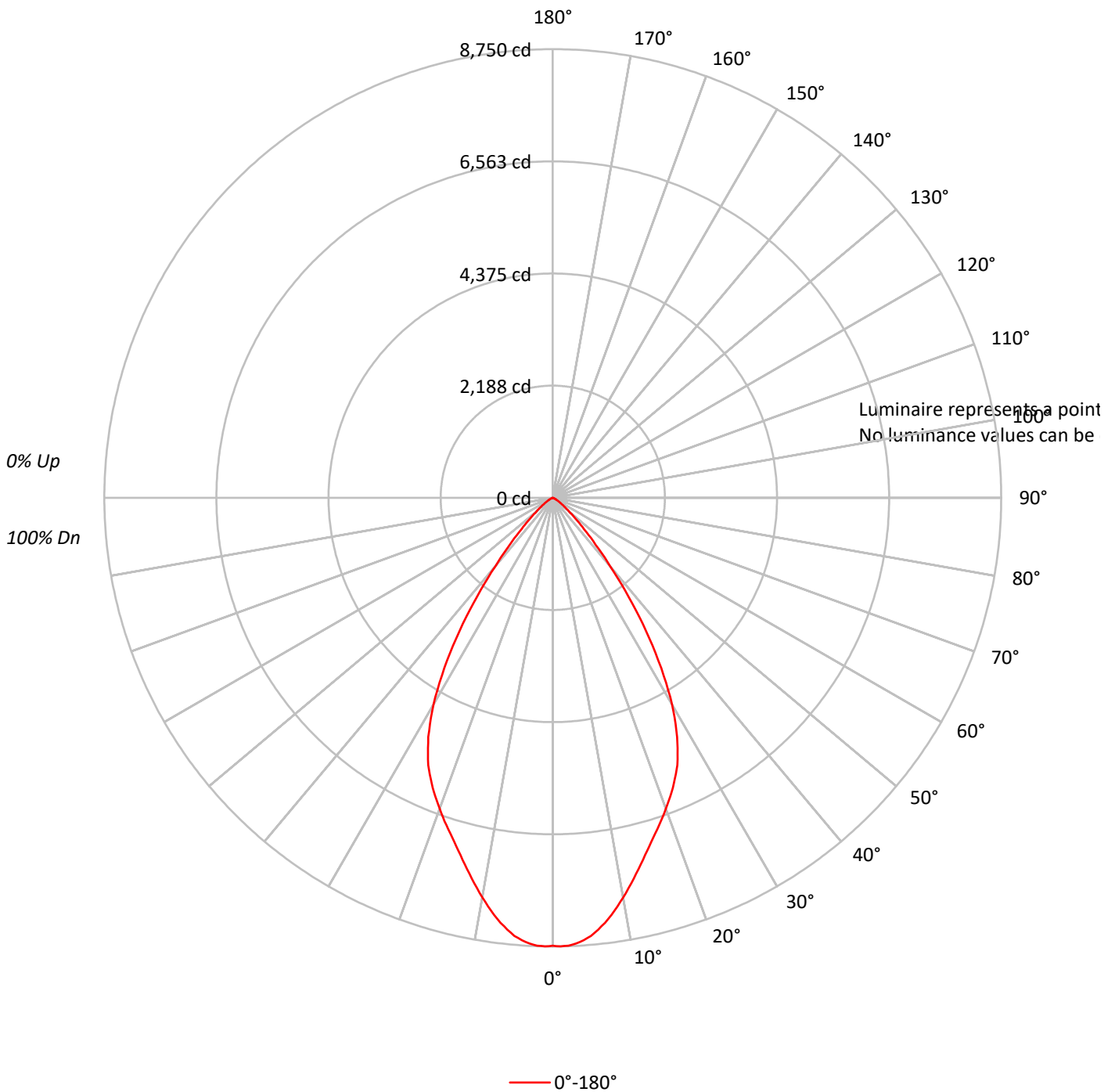
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	101	100	99	98	98	97	96	95	95	93	93	93	93
2	107	102	98	94	105	100	97	93	97	94	91	91	94	92	89	89	91	89	87	87	86	86	86	86
3	101	95	90	85	99	93	89	85	91	87	83	83	88	85	82	82	86	83	81	81	79	79	79	79
4	96	88	82	78	94	87	82	77	85	80	76	76	83	79	76	76	81	77	75	75	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	70	78	73	70	70	76	72	69	69	68	68	68	68
6	86	77	70	66	84	76	70	66	74	69	65	65	73	68	65	65	71	67	64	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	60	68	64	60	60	67	63	60	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	56	64	60	56	56	63	59	56	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	53	53	61	56	52	52	60	55	52	52	51	51	51	51
10	70	60	53	49	69	59	53	49	58	53	49	49	57	53	49	49	57	52	49	49	48	48	48	48

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.5	9.5
10°-20°	2004.0	24.0
20°-30°	2601.6	31.2
30°-40°	1963.6	23.5
40°-50°	718.5	8.6
50°-60°	200.9	2.4
60°-70°	52.8	0.6
70°-80°	8.9	0.1
80°-90°	0.4	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°	5402.0	64.7
0°-40°	7365.6	88.2
0°-60°	8285.0	99.3
0°-90°	8347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8737	
5°	8575	796
15°	7123	2004
25°	5751	2602
35°	3171	1964
45°	862	719
55°	206	201
65°	50	53
75°	8	9
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8736.6
1°	8749.6
2°	8739.2
3°	8705.4
4°	8648.1
5°	8575.2
6°	8468.5
7°	8351.3
8°	8216.0
9°	8067.6
10°	7911.4
11°	7755.2
12°	7593.8
13°	7429.8
14°	7273.6
15°	7122.6
16°	6979.4
17°	6841.4
18°	6716.5
19°	6586.3
20°	6453.5
22.5°	6122.9
25°	5750.7
27.5°	5258.6
30°	4659.9
32.5°	3938.8
35°	3170.8
37.5°	2421.1
40°	1746.8
42.5°	1236.6
45°	861.7
47.5°	606.6
50°	408.7
52.5°	299.4
55°	205.7
57.5°	148.4
60°	98.9
62.5°	72.9
65°	49.5
67.5°	33.8
70°	18.2
72.5°	13.0
75°	7.8
77.5°	2.6
80°	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)