

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: P250945

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250945  
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: LSR8B70D010 EC8B70850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6907.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

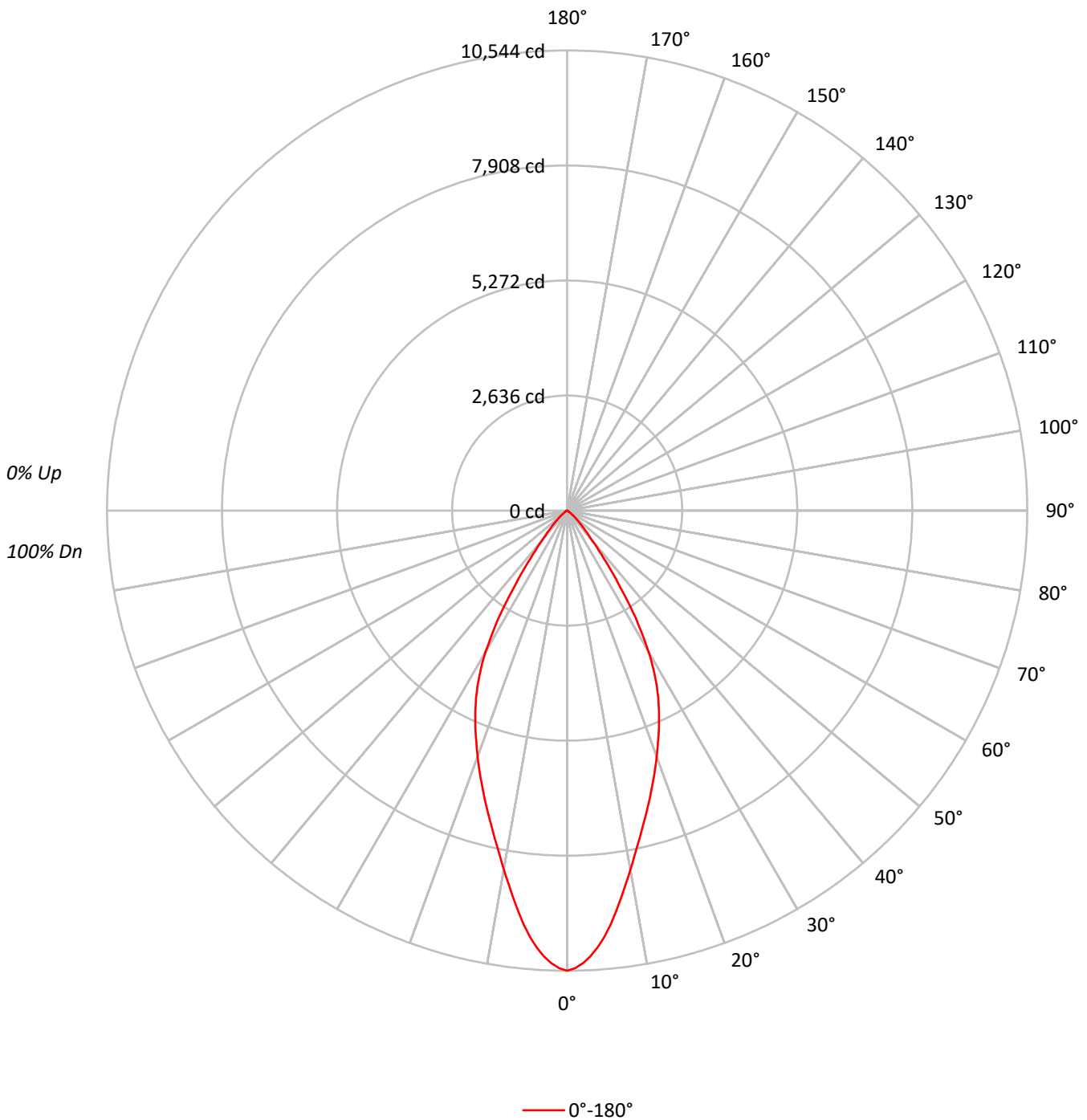
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	325126
5°	303264
10°	261411
15°	226233
20°	196803
25°	169130
30°	132891
35°	77536
40°	35774
45°	18512
50°	9288
55°	4516
60°	2300
65°	1364
70°	631
75°	560
80°	408
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.6	12.8
10°-20°	1981.4	28.7
20°-30°	2252.8	32.6
30°-40°	1323.0	19.2
40°-50°	355.0	5.1
50°-60°	84.3	1.2
60°-70°	19.2	0.3
70°-80°	4.3	0.1
80°-90°	0.3	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°	5120.9	74.1
0°-40°	6443.9	93.3
0°-60°	6883.2	99.7
0°-90°	6907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10544	
5°	9797	887
15°	7087	1981
25°	4971	2253
35°	2060	1323
45°	424	355
55°	84	84
65°	19	19
75°	5	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10543.6
1°	10485.3
2°	10378.0
3°	10226.4
4°	10030.4
5°	9797.2
6°	9533.6
7°	9235.0
8°	8936.4
9°	8635.5
10°	8348.6
11°	8068.7
12°	7805.1
13°	7560.1
14°	7315.2
15°	7086.6
16°	6862.7
17°	6641.1
18°	6426.5
19°	6209.5
20°	5997.3
21°	5785.0
22°	5582.0
23°	5381.4
24°	5176.2
25°	4970.9
26°	4758.6
27°	4527.7
28°	4285.1
29°	4019.2
30°	3732.2
32.5°	2927.5
35°	2059.7
37.5°	1357.6
40°	888.7
42.5°	613.5
45°	424.5
47.5°	291.6
50°	193.6
52.5°	126.0
55°	84.0
57.5°	56.0
60°	37.3
62.5°	25.7
65°	18.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	11.7
70°	7.0
72.5°	4.7
75°	4.7
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)