

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: P250797

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250797  
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: LSR8B70D010 EC8B70835 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7944.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

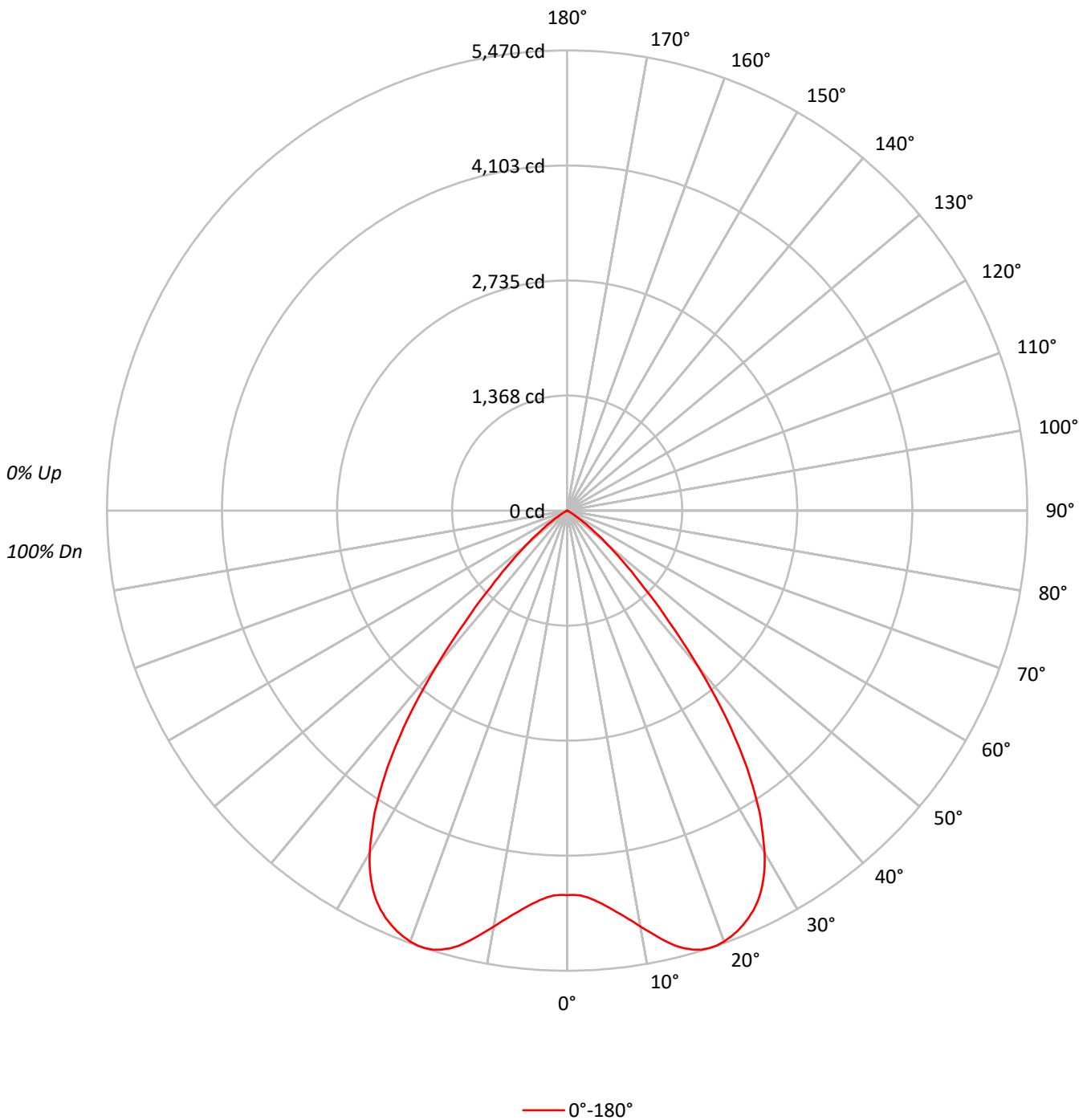
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	140944
5°	145116
10°	157205
15°	172004
20°	178945
25°	178290
30°	167238
35°	140236
40°	97640
45°	55920
50°	30026
55°	12387
60°	3084
65°	795
70°	388
75°	262
80°	391
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.3	5.8
10°-20°	1518.6	19.1
20°-30°	2389.4	30.1
30°-40°	2272.8	28.6
40°-50°	1047.8	13.2
50°-60°	238.1	3.0
60°-70°	15.7	0.2
70°-80°	3.1	0.0
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°	4366.2	55.0
0°-40°	6639.0	83.6
0°-60°	7924.9	99.8
0°-90°	7944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4571	
5°	4688	458
15°	5388	1519
25°	5240	2389
35°	3725	2273
45°	1282	1048
55°	230	238
65°	11	16
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4570.7
1°	4568.6
2°	4577.3
3°	4603.3
4°	4642.5
5°	4688.1
6°	4744.6
7°	4805.5
8°	4868.5
9°	4942.4
10°	5020.6
11°	5098.9
12°	5181.5
13°	5259.7
14°	5331.4
15°	5387.9
16°	5429.2
17°	5457.5
18°	5470.5
19°	5468.4
20°	5453.1
21°	5427.1
22°	5394.5
23°	5351.0
24°	5301.0
25°	5240.1
26°	5168.4
27°	5077.1
28°	4968.5
29°	4842.4
30°	4696.8
32.5°	4259.9
35°	3725.3
37.5°	3103.7
40°	2425.6
42.5°	1793.1
45°	1282.3
47.5°	908.5
50°	625.9
52.5°	399.9
55°	230.4
57.5°	115.2
60°	50.0
62.5°	19.6
65°	10.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	6.5
70°	4.3
72.5°	4.3
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)