

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: P251037

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70835 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6617.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

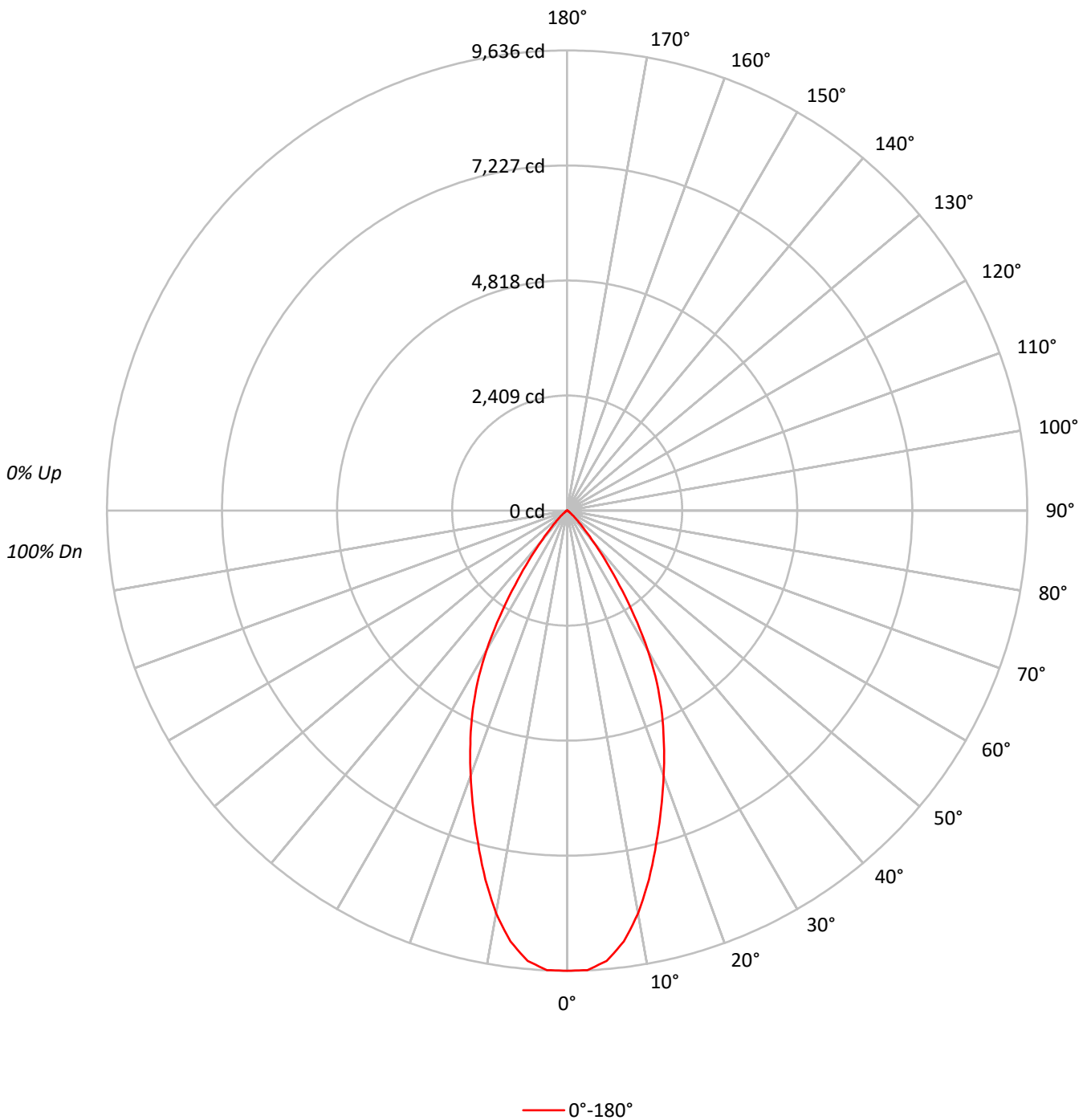
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93		96	94	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75		81	77	74		80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66		73	69	66		72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62		70	65	62		69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59		66	62	59		65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56		63	59	55		62	58	55	54

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

	0°
0°	297154
5°	293015
10°	268100
15°	230182
20°	193830
25°	160111
30°	120123
35°	71595
40°	34103
45°	14858
50°	6707
55°	2946
60°	1745
65°	956
70°	992
75°	0
80°	373
85°	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.2	13.2
10°-20°	2009.1	30.4
20°-30°	2131.7	32.2
30°-40°	1216.3	18.4
40°-50°	301.5	4.6
50°-60°	59.2	0.9
60°-70°	17.7	0.3
70°-80°	3.9	0.1
80°-90°	3.3	0.1
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°	5015.0	75.8
0°-40°	6231.3	94.2
0°-60°	6592.0	99.6
0°-90°	6617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9636	
5°	9466	874
15°	7210	2009
25°	4706	2132
35°	1902	1216
45°	341	301
55°	55	59
65°	13	18
75°	0	4
85°	4	3
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9636.5
2.5°	9632.0
5°	9466.1
7.5°	9101.3
10°	8562.2
12.5°	7911.3
15°	7210.3
17.5°	6542.2
20°	5906.7
22.5°	5295.5
25°	4705.8
27.5°	4072.4
30°	3373.6
32.5°	2622.4
35°	1901.9
37.5°	1310.3
40°	847.2
42.5°	537.1
45°	340.7
47.5°	222.9
50°	139.8
52.5°	85.0
55°	54.8
57.5°	43.8
60°	28.3
62.5°	26.2
65°	13.1
67.5°	13.1
70°	11.0
72.5°	6.4
75°	0.0
77.5°	2.1
80°	2.1
82.5°	4.5
85°	4.5
87.5°	2.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)