

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: P251107

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P200903)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70830 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7475.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

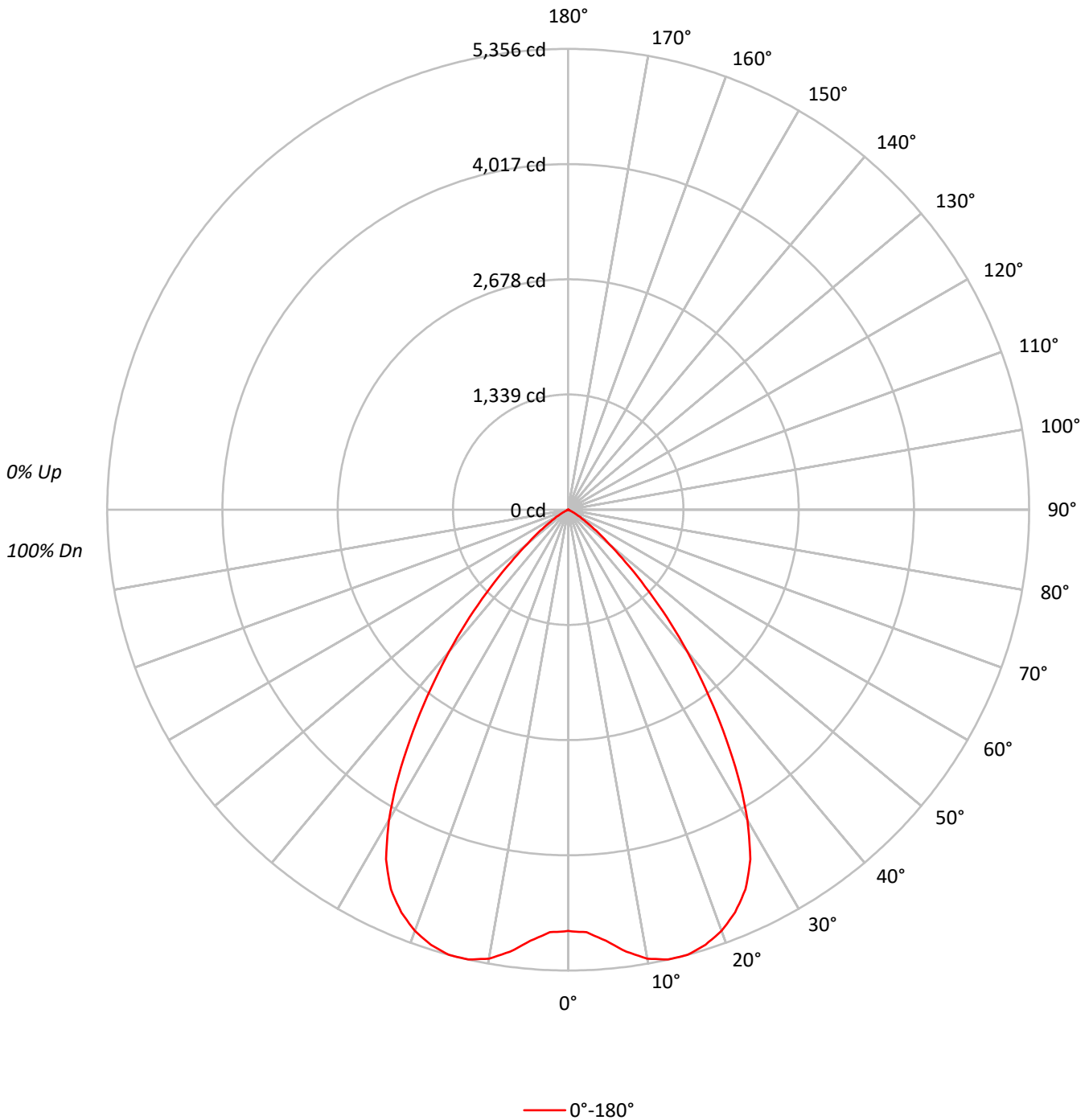
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

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

	0°
0°	150999
5°	155631
10°	165882
15°	170998
20°	170988
25°	165762
30°	148362
35°	118169
40°	86341
45°	55148
50°	29825
55°	15333
60°	6661
65°	1372
70°	947
75°	0
80°	302
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.3	6.5
10°-20°	1505.8	20.1
20°-30°	2209.2	29.6
30°-40°	1951.6	26.1
40°-50°	999.6	13.4
50°-60°	279.5	3.7
60°-70°	35.7	0.5
70°-80°	3.6	0.0
80°-90°	0.7	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°	4204.3	56.2
0°-40°	6155.8	82.4
0°-60°	7435.0	99.5
0°-90°	7475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7475.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4897	
5°	5028	489
15°	5356	1506
25°	4872	2209
35°	3139	1952
45°	1265	1000
55°	285	279
65°	19	36
75°	0	4
85°	0	1
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°	4896.8
2.5°	4915.6
5°	5027.8
7.5°	5181.4
10°	5297.7
12.5°	5354.4
15°	5356.4
17.5°	5302.5
20°	5210.6
22.5°	5065.3
25°	4871.9
27.5°	4583.5
30°	4166.7
32.5°	3672.6
35°	3139.1
37.5°	2619.1
40°	2144.9
42.5°	1697.3
45°	1264.6
47.5°	902.6
50°	621.7
52.5°	434.5
55°	285.2
57.5°	181.1
60°	108.0
62.5°	56.1
65°	18.8
67.5°	12.2
70°	10.5
72.5°	6.1
75°	0.0
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
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)