

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: P251105

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251105  
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 EC8B70827 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7293.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

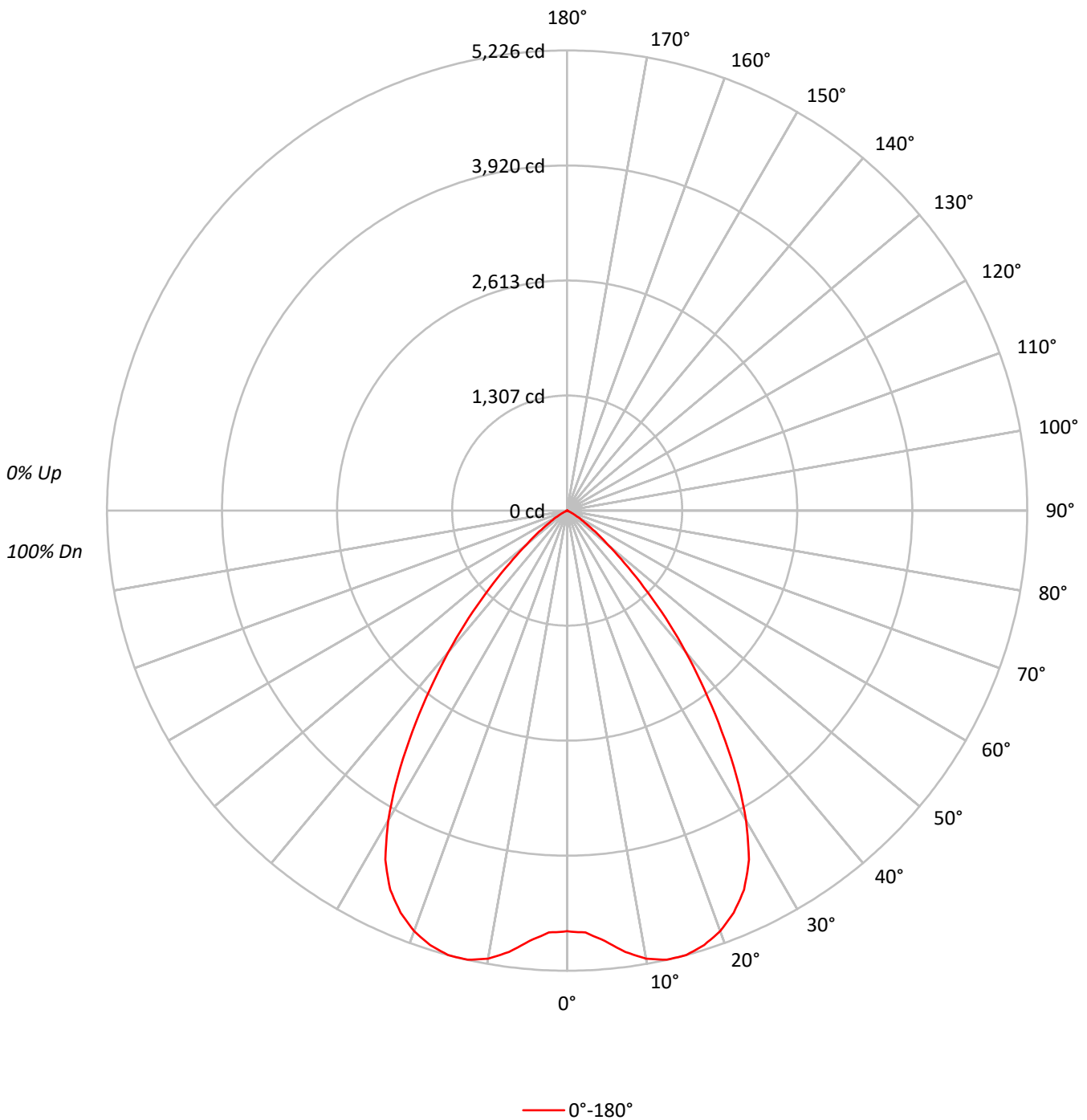
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	147324
5°	151839
10°	161842
15°	166835
20°	166827
25°	161727
30°	144748
35°	115289
40°	84235
45°	53805
50°	29100
55°	14962
60°	6500
65°	1335
70°	920
75°	0
80°	302
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.4	6.5
10°-20°	1469.2	20.1
20°-30°	2155.4	29.6
30°-40°	1904.0	26.1
40°-50°	975.3	13.4
50°-60°	272.7	3.7
60°-70°	34.8	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°	4101.9	56.2
0°-40°	6005.9	82.4
0°-60°	7253.9	99.5
0°-90°	7293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4778	
5°	4905	477
15°	5226	1469
25°	4753	2155
35°	3063	1904
45°	1234	975
55°	278	273
65°	18	35
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°	4777.6
2.5°	4795.9
5°	4905.3
7.5°	5055.2
10°	5168.7
12.5°	5224.1
15°	5226.0
17.5°	5173.4
20°	5083.8
22.5°	4942.0
25°	4753.3
27.5°	4471.9
30°	4065.2
32.5°	3583.2
35°	3062.6
37.5°	2555.3
40°	2092.6
42.5°	1656.0
45°	1233.8
47.5°	880.6
50°	606.6
52.5°	423.9
55°	278.3
57.5°	176.7
60°	105.4
62.5°	54.7
65°	18.3
67.5°	11.9
70°	10.2
72.5°	6.0
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)