

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: P250807

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250807  
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 EC8B70935 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6774.1 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

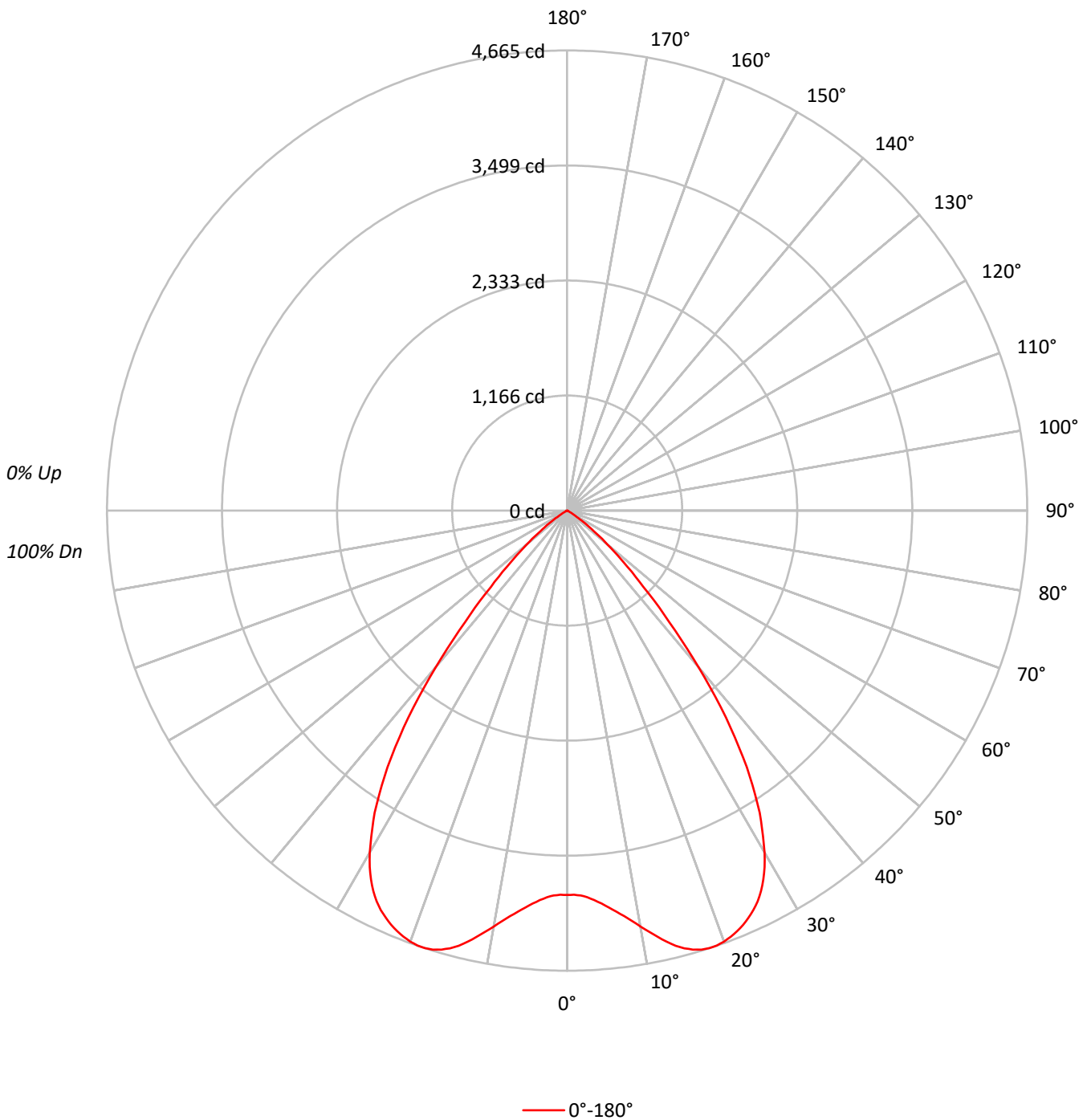
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70					70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64					64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54					54			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42					42			

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

	0°
0°	120185
5°	123742
10°	134053
15°	146672
20°	152591
25°	152033
30°	142605
35°	119581
40°	83257
45°	47687
50°	25608
55°	10564
60°	2627
65°	679
70°	334
75°	226
80°	337
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.8	5.8
10°-20°	1294.9	19.1
20°-30°	2037.5	30.1
30°-40°	1938.1	28.6
40°-50°	893.5	13.2
50°-60°	203.0	3.0
60°-70°	13.4	0.2
70°-80°	2.7	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°	3723.2	55.0
0°-40°	5661.2	83.6
0°-60°	6757.7	99.8
0°-90°	6774.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6774.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3898	
5°	3998	391
15°	4594	1295
25°	4468	2037
35°	3177	1938
45°	1094	893
55°	196	203
65°	9	13
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3897.5
1°	3895.7
2°	3903.1
3°	3925.3
4°	3958.7
5°	3997.6
6°	4045.8
7°	4097.7
8°	4151.5
9°	4214.5
10°	4281.2
11°	4347.9
12°	4418.3
13°	4485.1
14°	4546.2
15°	4594.4
16°	4629.6
17°	4653.7
18°	4664.8
19°	4663.0
20°	4650.0
21°	4627.8
22°	4600.0
23°	4562.9
24°	4520.3
25°	4468.4
26°	4407.2
27°	4329.4
28°	4236.7
29°	4129.2
30°	4005.0
32.5°	3632.5
35°	3176.6
37.5°	2646.6
40°	2068.3
42.5°	1529.0
45°	1093.5
47.5°	774.7
50°	533.8
52.5°	341.0
55°	196.5
57.5°	98.2
60°	42.6
62.5°	16.7
65°	9.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	5.6
70°	3.7
72.5°	3.7
75°	1.9
77.5°	1.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)