

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: P251425

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70850 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7773.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

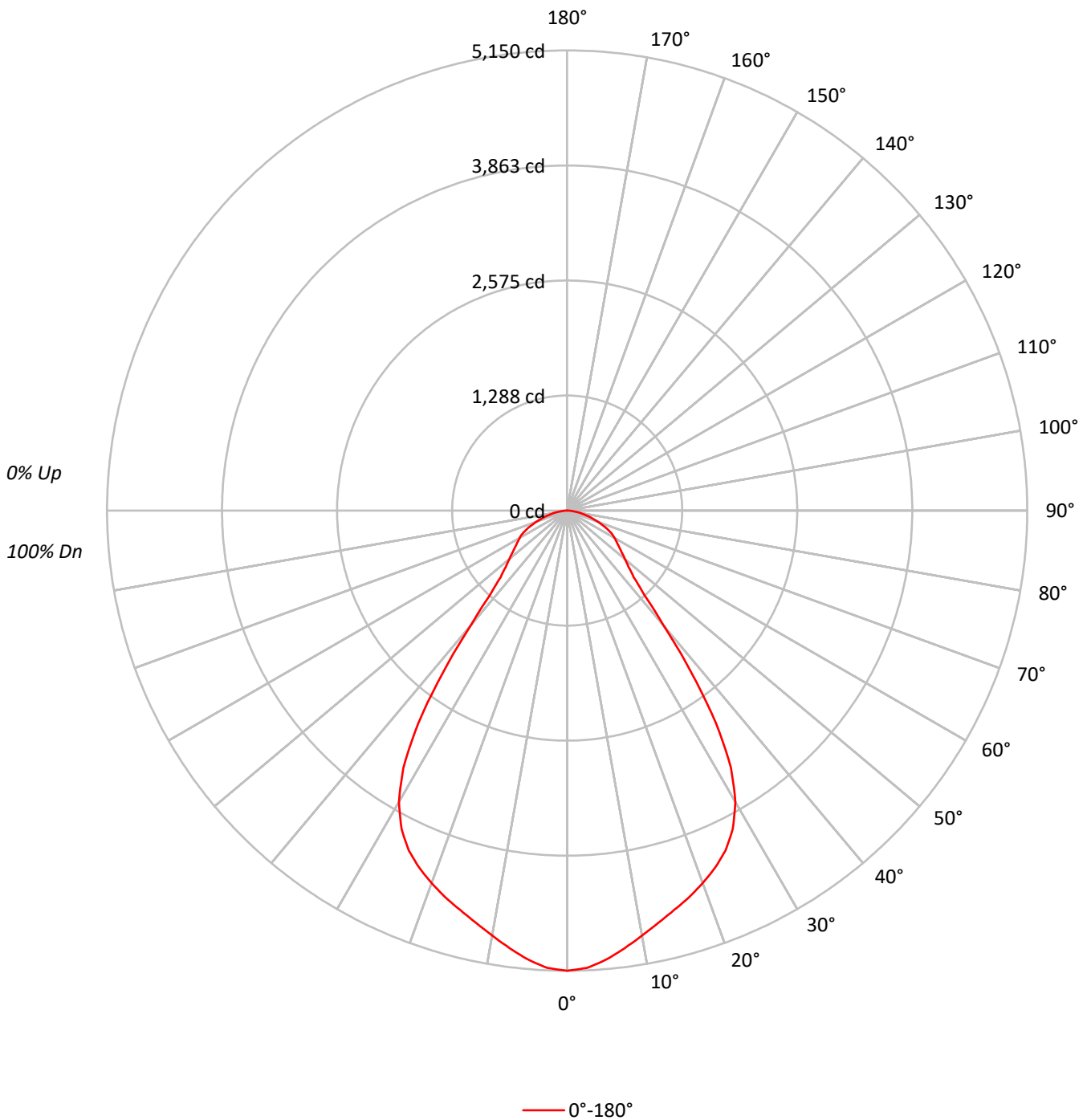
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	158813
5°	156136
10°	151228
15°	147729
20°	145625
25°	142769
30°	134045
35°	109420
40°	67780
45°	45907
50°	40451
55°	38171
60°	37861
65°	36694
70°	32899
75°	28487
80°	24080
85°	19176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.5	6.1
10°-20°	1307.0	16.8
20°-30°	1916.7	24.7
30°-40°	1752.0	22.5
40°-50°	867.4	11.2
50°-60°	641.4	8.3
60°-70°	493.0	6.3
70°-80°	257.0	3.3
80°-90°	64.0	0.8
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°	3698.2	47.6
0°-40°	5450.2	70.1
0°-60°	6959.0	89.5
0°-90°	7773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7773.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5150	
5°	5044	474
15°	4628	1307
25°	4196	1917
35°	2907	1752
45°	1053	867
55°	710	641
65°	503	493
75°	239	257
85°	54	64
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5150.2
2.5°	5123.0
5°	5044.1
7.5°	4938.1
10°	4829.7
12.5°	4723.7
15°	4627.5
17.5°	4536.3
20°	4437.7
22.5°	4326.7
25°	4196.1
27.5°	4016.1
30°	3764.6
32.5°	3412.1
35°	2906.7
37.5°	2280.5
40°	1683.8
42.5°	1274.6
45°	1052.7
47.5°	931.9
50°	843.2
52.5°	771.7
55°	710.0
57.5°	658.3
60°	613.9
62.5°	567.0
65°	502.9
67.5°	433.9
70°	364.9
72.5°	300.8
75°	239.1
77.5°	184.9
80°	135.6
82.5°	93.7
85°	54.2
87.5°	19.7
90°	0.0

(END OF REPORT)