

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: P249984

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150850 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14062.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

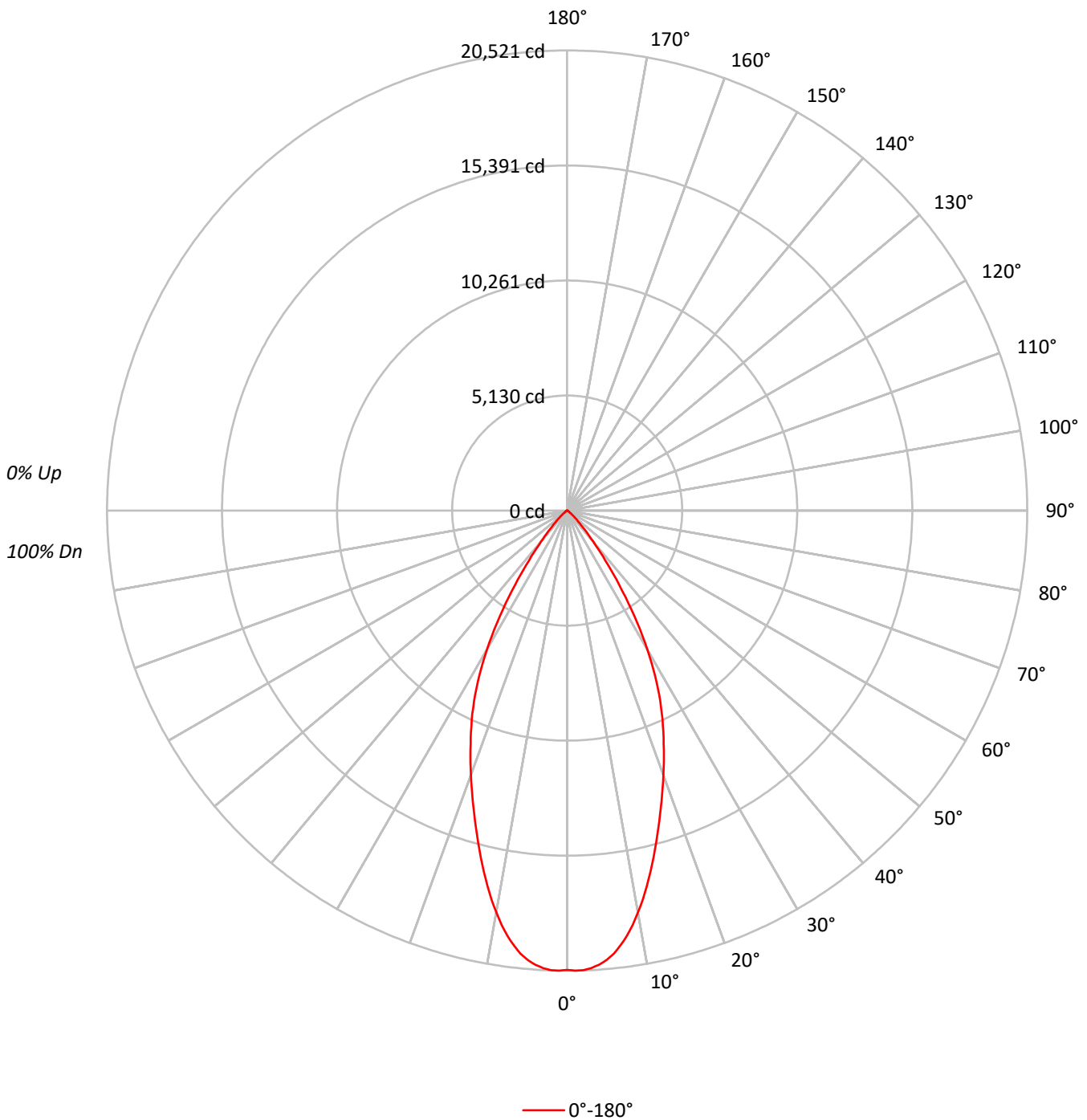
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

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

	0°
0°	631577
5°	622781
10°	569757
15°	489183
20°	411941
25°	340357
30°	255297
35°	152177
40°	72501
45°	31586
50°	14320
55°	6312
60°	3620
65°	2152
70°	2209
75°	0
80°	870
85°	3467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1859.0	13.2
10°-20°	4265.1	30.3
20°-30°	4531.2	32.2
30°-40°	2585.3	18.4
40°-50°	641.0	4.6
50°-60°	126.0	0.9
60°-70°	38.1	0.3
70°-80°	9.0	0.1
80°-90°	7.3	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°	10655.3	75.8
0°-40°	13240.6	94.2
0°-60°	14007.6	99.6
0°-90°	14062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	20482	
5°	20120	###
15°	15323	4265
25°	10003	4531
35°	4042	2585
45°	724	641
55°	117	126
65°	30	38
75°	0	9
85°	10	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	20481.6
1°	20520.9
2°	20506.2
3°	20432.8
4°	20305.6
5°	20119.5
6°	19874.9
7°	19537.1
8°	19150.4
9°	18695.5
10°	18196.1
11°	17667.7
12°	17099.8
13°	16522.4
14°	15930.2
15°	15323.3
16°	14750.7
17°	14173.3
18°	13629.9
19°	13077.0
20°	12553.3
22.5°	11256.3
25°	10003.4
27.5°	8657.7
30°	7169.9
32.5°	5574.3
35°	4042.5
37.5°	2784.7
40°	1801.1
42.5°	1140.4
45°	724.3
47.5°	474.8
50°	298.5
52.5°	181.2
55°	117.4
57.5°	93.0
60°	58.7
62.5°	53.8
65°	29.5
67.5°	29.5
70°	24.5
72.5°	14.7
75°	0.0
77.5°	4.9
80°	4.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	9.8
85°	9.8
87.5°	4.9
90°	0.0

(END OF REPORT)