

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: P250022

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBNOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250022  
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: LSR8B80D010 EC8B809727 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5134.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

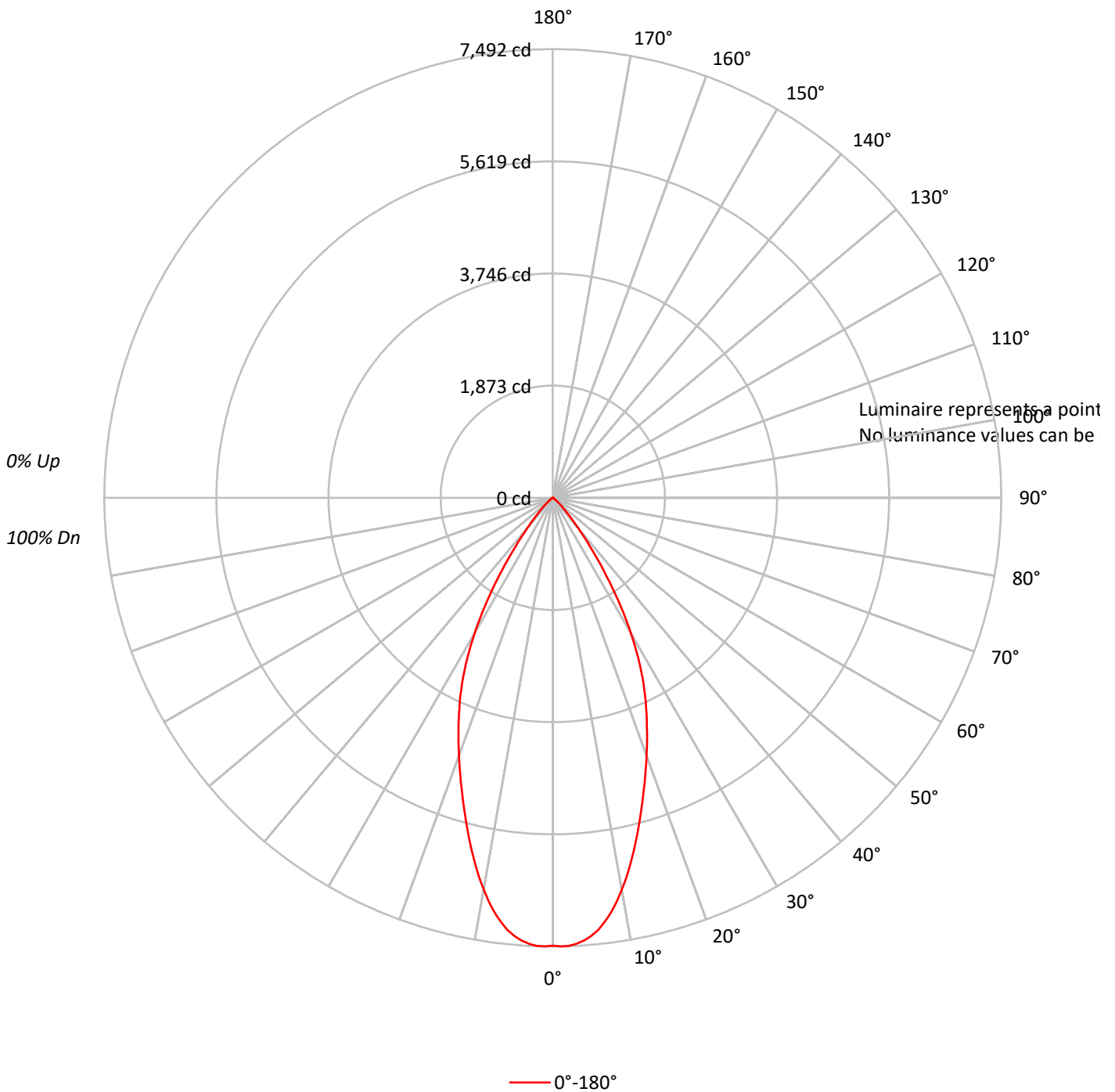
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.7	13.2
10°-20°	1557.2	30.3
20°-30°	1654.3	32.2
30°-40°	943.9	18.4
40°-50°	234.0	4.6
50°-60°	46.0	0.9
60°-70°	13.9	0.3
70°-80°	3.3	0.1
80°-90°	2.7	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°	3890.2	75.8
0°-40°	4834.1	94.2
0°-60°	5114.2	99.6
0°-90°	5134.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7478	
5°	7346	679
15°	5594	1557
25°	3652	1654
35°	1476	944
45°	264	234
55°	43	46
65°	11	14
75°	0	3
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7477.8
1°	7492.1
2°	7486.7
3°	7459.9
4°	7413.5
5°	7345.6
6°	7256.3
7°	7132.9
8°	6991.8
9°	6825.7
10°	6643.3
11°	6450.4
12°	6243.1
13°	6032.3
14°	5816.1
15°	5594.5
16°	5385.5
17°	5174.6
18°	4976.3
19°	4774.4
20°	4583.2
22.5°	4109.6
25°	3652.2
27.5°	3160.9
30°	2617.7
32.5°	2035.1
35°	1475.9
37.5°	1016.7
40°	657.6
42.5°	416.4
45°	264.4
47.5°	173.4
50°	109.0
52.5°	66.1
55°	42.9
57.5°	34.0
60°	21.4
62.5°	19.6
65°	10.8
67.5°	10.8
70°	9.0
72.5°	5.4
75°	0.0
77.5°	1.8
80°	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	3.6
85°	3.6
87.5°	1.8
90°	0.0

(END OF REPORT)