

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: P249952

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249952  
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 EC8B80827 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6917.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

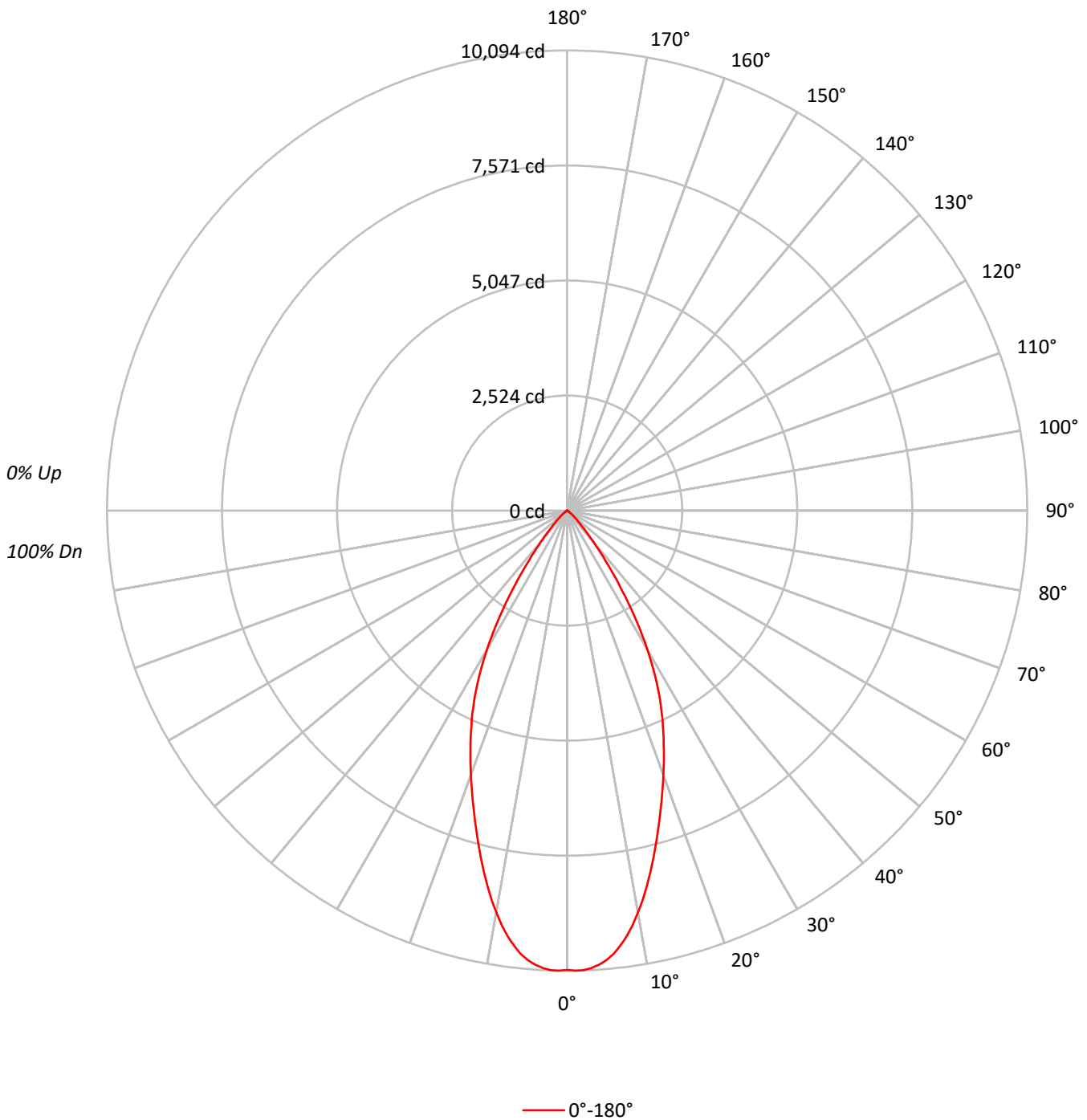
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	310670
5°	306340
10°	280258
15°	240625
20°	202631
25°	167419
30°	125578
35°	74855
40°	35665
45°	15538
50°	7047
55°	3102
60°	1782
65°	1058
70°	1091
75°	0
80°	426
85°	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	914.4	13.2
10°-20°	2098.0	30.3
20°-30°	2228.9	32.2
30°-40°	1271.7	18.4
40°-50°	315.3	4.6
50°-60°	62.0	0.9
60°-70°	18.7	0.3
70°-80°	4.4	0.1
80°-90°	3.6	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°	5241.3	75.8
0°-40°	6513.0	94.2
0°-60°	6890.3	99.6
0°-90°	6917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10075	
5°	9897	914
15°	7537	2098
25°	4921	2229
35°	1988	1272
45°	356	315
55°	58	62
65°	14	19
75°	0	4
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10074.8
1°	10094.1
2°	10086.8
3°	10050.7
4°	9988.2
5°	9896.6
6°	9776.3
7°	9610.2
8°	9420.0
9°	9196.2
10°	8950.5
11°	8690.6
12°	8411.3
13°	8127.2
14°	7836.0
15°	7537.4
16°	7255.8
17°	6971.7
18°	6704.5
19°	6432.5
20°	6174.9
22.5°	5536.9
25°	4920.6
27.5°	4258.7
30°	3526.8
32.5°	2741.9
35°	1988.5
37.5°	1369.8
40°	886.0
42.5°	561.0
45°	356.3
47.5°	233.6
50°	146.9
52.5°	89.1
55°	57.7
57.5°	45.8
60°	28.9
62.5°	26.5
65°	14.5
67.5°	14.5
70°	12.1
72.5°	7.2
75°	0.0
77.5°	2.4
80°	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	4.8
85°	4.8
87.5°	2.4
90°	0.0

(END OF REPORT)