

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: P249973

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249973  
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 EC8B80840 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7325.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 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

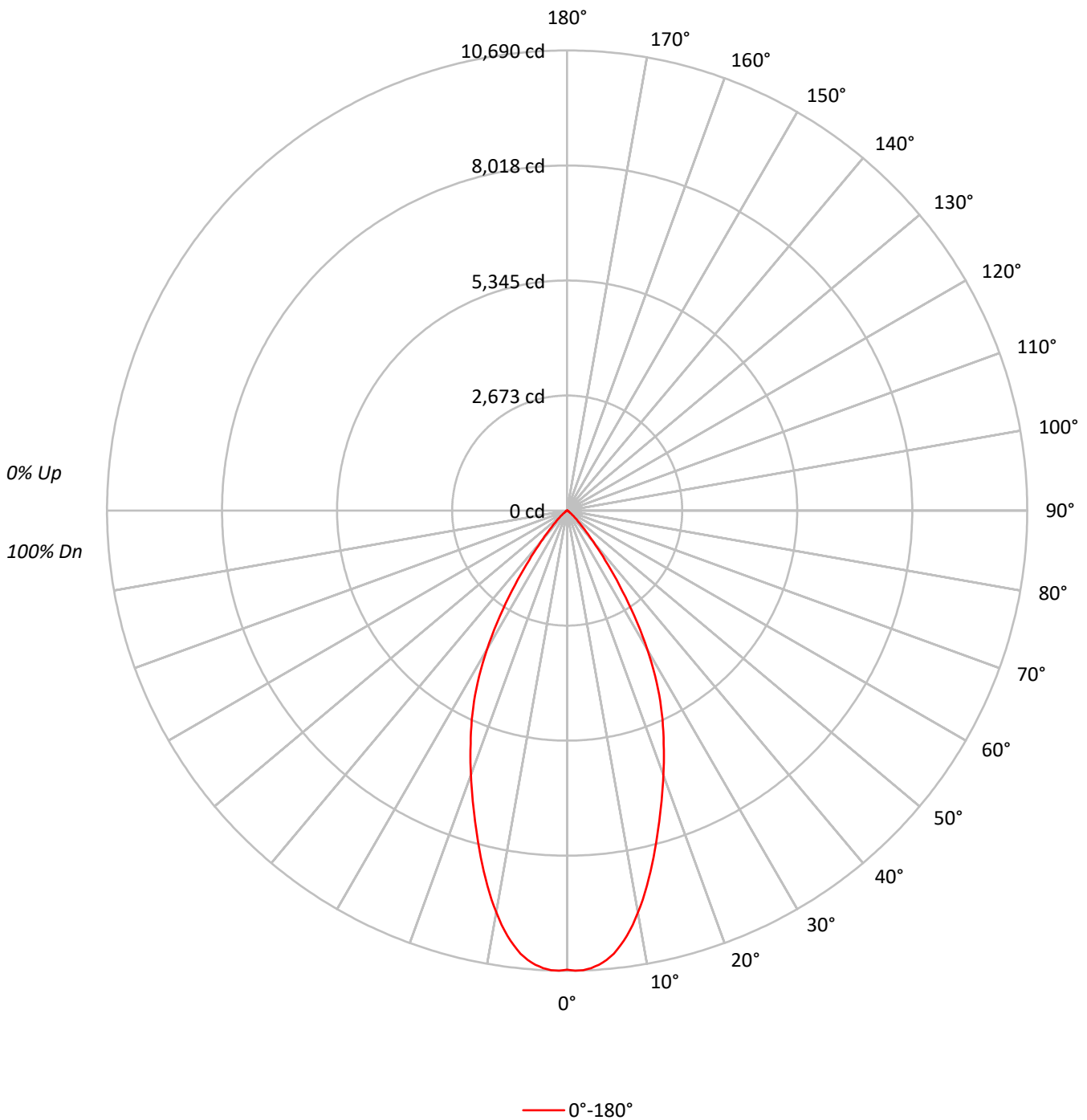
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249973

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P249973

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBNOWMH

**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°	328993
5°	324411
10°	296791
15°	254818
20°	214583
25°	177293
30°	132984
35°	79267
40°	37766
45°	16454
50°	7460
55°	3285
60°	1887
65°	1116
70°	1154
75°	0
80°	462
85°	1804



TEST NUMBER: P249973

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBN0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	968.3	13.2
10°-20°	2221.7	30.3
20°-30°	2360.3	32.2
30°-40°	1346.7	18.4
40°-50°	333.9	4.6
50°-60°	65.7	0.9
60°-70°	19.8	0.3
70°-80°	4.7	0.1
80°-90°	3.8	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°	5550.4	75.8
0°-40°	6897.1	94.2
0°-60°	7296.7	99.6
0°-90°	7325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7325.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10669	
5°	10480	968
15°	7982	2222
25°	5211	2360
35°	2106	1347
45°	377	334
55°	61	66
65°	15	20
75°	0	5
85°	5	4
90°	0	



TEST NUMBER: P249973

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBNOWMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10669.0
1°	10689.5
2°	10681.8
3°	10643.6
4°	10577.3
5°	10480.4
6°	10353.0
7°	10177.0
8°	9975.6
9°	9738.6
10°	9478.5
11°	9203.2
12°	8907.4
13°	8606.6
14°	8298.2
15°	7982.0
16°	7683.8
17°	7383.0
18°	7099.9
19°	6811.9
20°	6539.1
22.5°	5863.5
25°	5210.8
27.5°	4509.9
30°	3734.8
32.5°	2903.7
35°	2105.7
37.5°	1450.6
40°	938.2
42.5°	594.1
45°	377.3
47.5°	247.3
50°	155.5
52.5°	94.4
55°	61.1
57.5°	48.5
60°	30.6
62.5°	28.0
65°	15.3
67.5°	15.3
70°	12.8
72.5°	7.7
75°	0.0
77.5°	2.6
80°	2.6



TEST NUMBER: P249973

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBN0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.1
85°	5.1
87.5°	2.6
90°	0.0

(END OF REPORT)