

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: P249847

Luminaire Tested: **LD8B80D010 ER8B80950 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80950 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6951.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

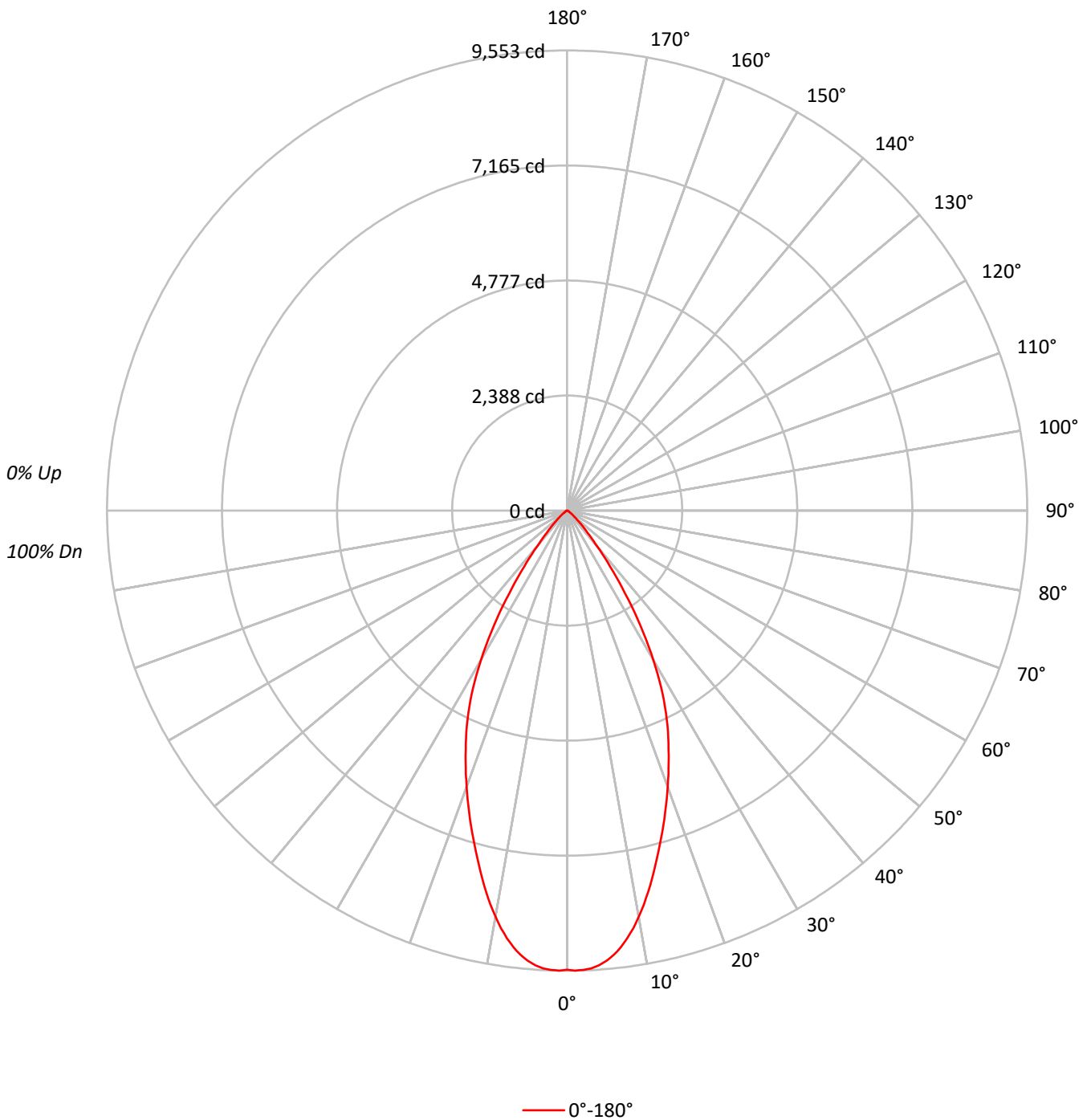
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

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

	0°
0°	293984
5°	290377
10°	268175
15°	233844
20°	200308
25°	167671
30°	127561
35°	79075
40°	39010
45°	18569
50°	9028
55°	4425
60°	2757
65°	1890
70°	1064
75°	846
80°	835
85°	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.4	12.5
10°-20°	2041.0	29.4
20°-30°	2230.7	32.1
30°-40°	1327.5	19.1
40°-50°	364.1	5.2
50°-60°	82.5	1.2
60°-70°	25.5	0.4
70°-80°	7.8	0.1
80°-90°	2.6	0.0
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°	5141.1	74.0
0°-40°	6468.6	93.1
0°-60°	6915.2	99.5
0°-90°	6951.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6951.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9534	
5°	9381	869
15°	7325	2041
25°	4928	2231
35°	2101	1327
45°	426	364
55°	82	82
65°	26	25
75°	7	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9533.7
1°	9552.6
2°	9540.8
3°	9517.3
4°	9463.2
5°	9380.9
6°	9275.0
7°	9133.9
8°	8969.2
9°	8778.7
10°	8564.6
11°	8336.4
12°	8091.8
13°	7840.1
14°	7579.0
15°	7325.0
16°	7075.6
17°	6831.0
18°	6586.4
19°	6341.7
20°	6104.1
22.5°	5506.7
25°	4928.0
27.5°	4290.5
30°	3582.5
32.5°	2822.7
35°	2100.6
37.5°	1460.8
40°	969.1
42.5°	635.1
45°	425.8
47.5°	282.3
50°	188.2
52.5°	115.3
55°	82.3
57.5°	58.8
60°	44.7
62.5°	32.9
65°	25.9
67.5°	16.5
70°	11.8
72.5°	9.4
75°	7.1
77.5°	4.7
80°	4.7



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)