

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: P249788

Luminaire Tested: **LD8B150D010 ER8B150827 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249788  
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: LD8B150D010 ER8B150827 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13370.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

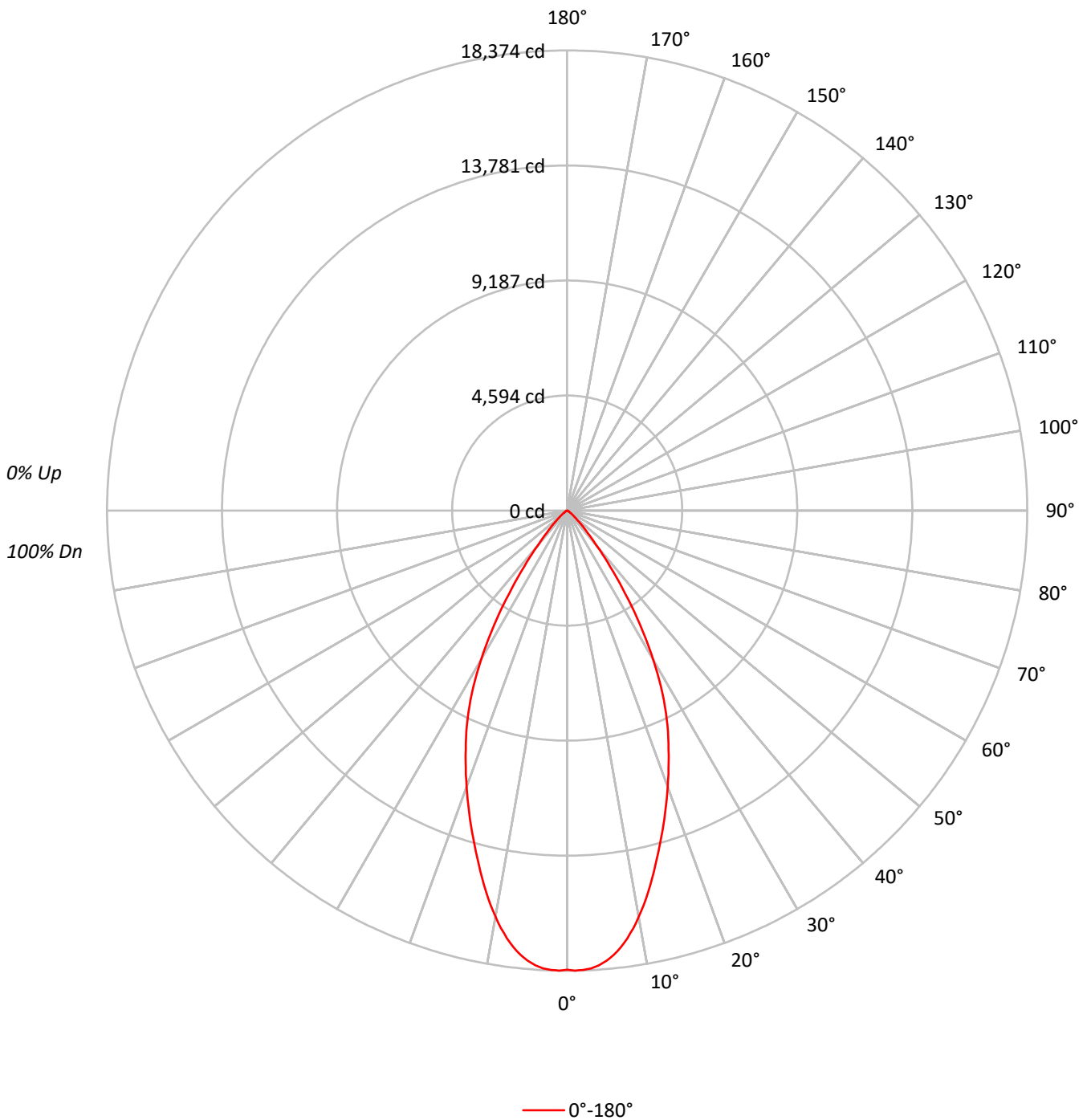
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	565470
5°	558527
10°	515825
15°	449788
20°	385288
25°	322508
30°	245359
35°	152098
40°	75037
45°	35712
50°	17366
55°	8516
60°	5304
65°	3634
70°	2038
75°	1620
80°	1598
85°	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1672.2	12.5
10°-20°	3925.8	29.4
20°-30°	4290.7	32.1
30°-40°	2553.4	19.1
40°-50°	700.4	5.2
50°-60°	158.7	1.2
60°-70°	49.0	0.4
70°-80°	14.9	0.1
80°-90°	4.9	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°	9888.8	74.0
0°-40°	12442.1	93.1
0°-60°	13301.2	99.5
0°-90°	13370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18338	
5°	18044	###
15°	14089	3926
25°	9479	4291
35°	4040	2553
45°	819	700
55°	158	159
65°	50	49
75°	14	15
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18337.8
1°	18374.0
2°	18351.4
3°	18306.2
4°	18202.1
5°	18043.7
6°	17840.1
7°	17568.7
8°	17251.9
9°	16885.5
10°	16473.7
11°	16034.9
12°	15564.3
13°	15080.2
14°	14578.0
15°	14089.3
16°	13609.7
17°	13139.2
18°	12668.6
19°	12198.1
20°	11741.1
22.5°	10591.9
25°	9478.8
27.5°	8252.7
30°	6890.8
32.5°	5429.4
35°	4040.4
37.5°	2809.7
40°	1864.1
42.5°	1221.6
45°	818.9
47.5°	542.9
50°	362.0
52.5°	221.7
55°	158.4
57.5°	113.1
60°	86.0
62.5°	63.3
65°	49.8
67.5°	31.7
70°	22.6
72.5°	18.1
75°	13.6
77.5°	9.0
80°	9.0



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	4.5
85°	4.5
87.5°	4.5
90°	0.0

(END OF REPORT)