

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: P250439

Luminaire Tested: **LD8B150D010 ER8B150950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8524.0 lumens  
Efficiency: N/A  
Efficacy: 53.8 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

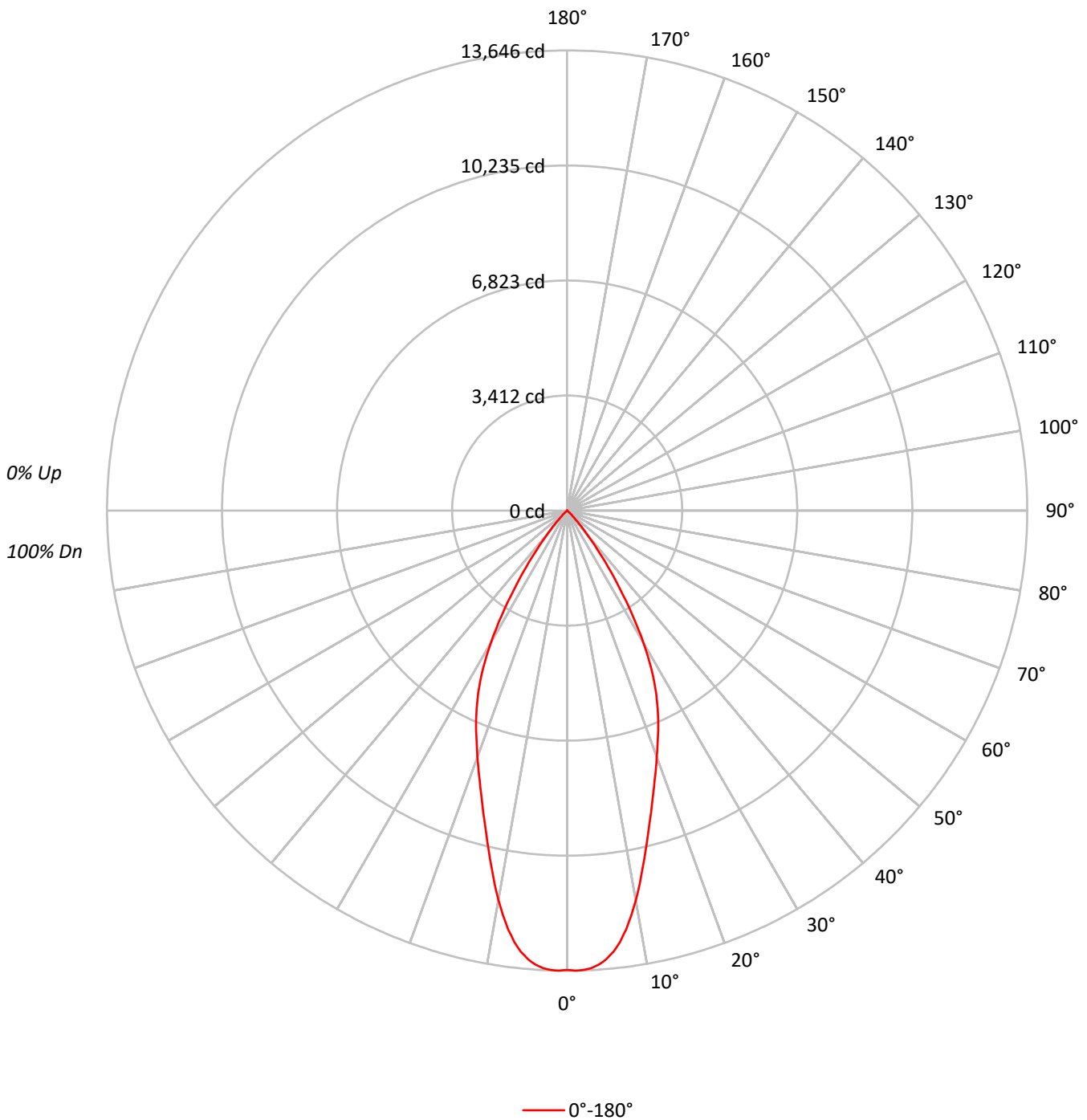
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250439

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P250439

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBNOB

**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	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72		79	75	71		77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64		71	67	64		70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61		68	63	60		67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57		65	60	57		64	60	57	56

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

	0°
0°	420006
5°	413296
10°	367202
15°	302912
20°	255113
25°	215172
30°	161110
35°	91178
40°	36051
45°	9677
50°	1857
55°	0
60°	265
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250439

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBN0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1222.7	14.3
10°-20°	2657.5	31.2
20°-30°	2853.0	33.5
30°-40°	1542.0	18.1
40°-50°	240.6	2.8
50°-60°	6.6	0.1
60°-70°	1.6	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	6733.2	79.0
0°-40°	8275.2	97.1
0°-60°	8522.4	100.0
0°-90°	8524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13620	
5°	13352	###
15°	9488	2658
25°	6324	2853
35°	2422	1542
45°	222	241
55°	0	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250439

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBNOB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13620.5
1°	13646.4
2°	13633.5
3°	13586.9
4°	13497.2
5°	13351.9
6°	13151.9
7°	12882.8
8°	12546.0
9°	12158.3
10°	11727.2
11°	11275.1
12°	10806.0
13°	10337.4
14°	9902.0
15°	9488.5
16°	9108.9
17°	8742.1
18°	8400.9
19°	8081.4
20°	7774.2
21°	7475.5
22°	7193.9
23°	6912.9
24°	6618.6
25°	6324.1
26°	6025.5
27°	5684.6
28°	5309.1
29°	4925.8
30°	4524.7
31°	4094.0
32°	3663.0
33°	3236.7
34°	2806.0
35°	2422.1
37.5°	1548.0
40°	895.6
42.5°	477.8
45°	221.9
47.5°	119.7
50°	38.7
52.5°	4.3
55°	0.0
57.5°	4.3



TEST NUMBER: P250439

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
60°	4.3
62.5°	0.0
65°	0.0
67.5°	4.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)