

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: P249932

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90950 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8452.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

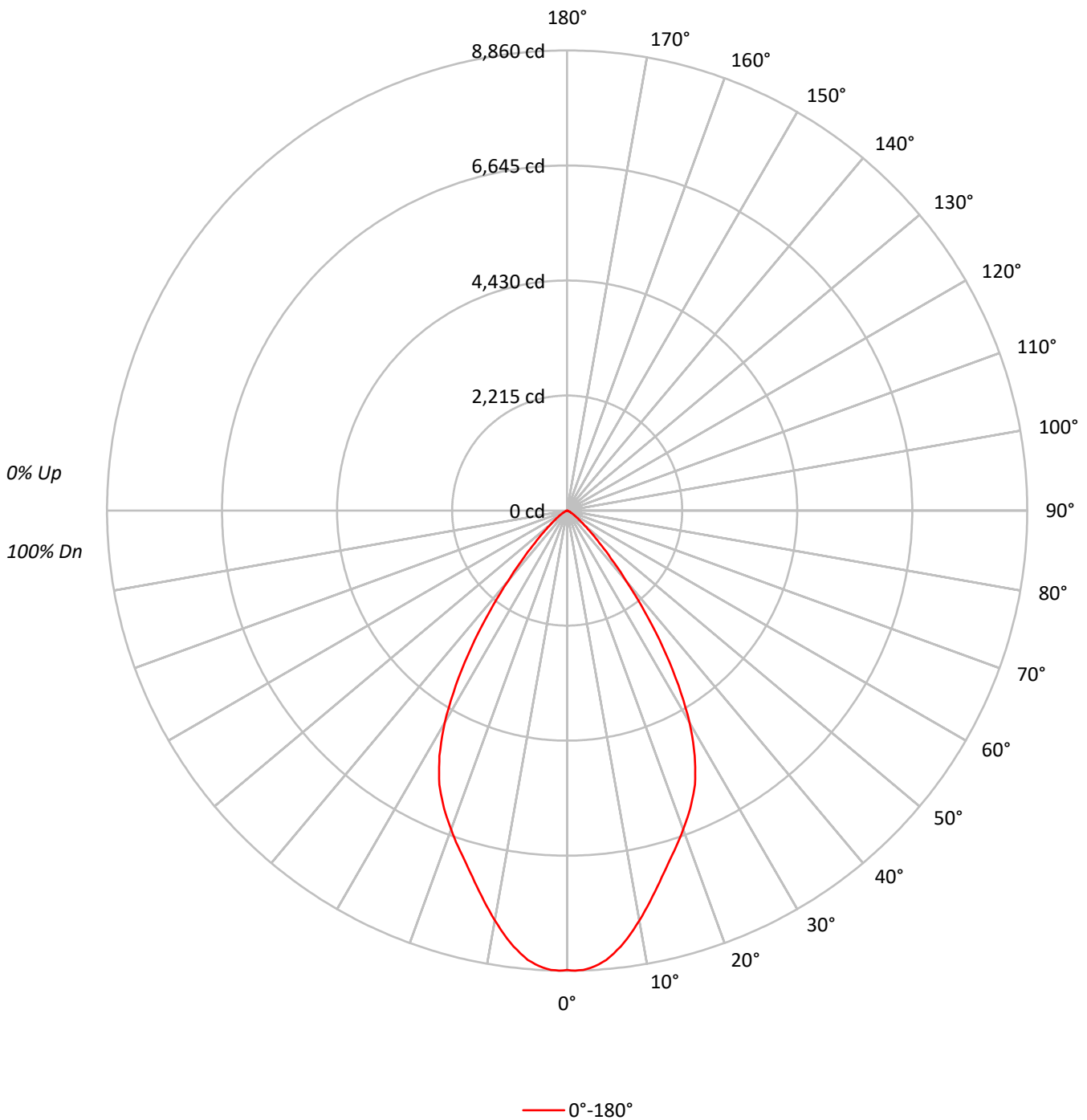
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249932

CATALOG NUMBER: LSR8B90D010 EC8B90950 8LBM0H

Luminous Intensity Polar Plot





TEST NUMBER: P249932

CATALOG NUMBER: LSR8B90D010 EC8B90950 8LBM0H

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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	272793
5°	268778
10°	250837
15°	230243
20°	214438
25°	198122
30°	168010
35°	120864
40°	71201
45°	38049
50°	19856
55°	11193
60°	6180
65°	3656
70°	1668
75°	941
80°	462
85°	0



TEST NUMBER: P249932

CATALOG NUMBER: LSR8B90D010 EC8B90950 8LBM0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.5	9.5
10°-20°	2029.2	24.0
20°-30°	2634.3	31.2
30°-40°	1988.3	23.5
40°-50°	727.5	8.6
50°-60°	203.4	2.4
60°-70°	53.5	0.6
70°-80°	9.0	0.1
80°-90°	0.4	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°	5470.0	64.7
0°-40°	7458.3	88.2
0°-60°	8389.2	99.3
0°-90°	8452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8452.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8846	
5°	8683	807
15°	7212	2029
25°	5823	2634
35°	3211	1988
45°	872	728
55°	208	203
65°	50	53
75°	8	9
85°	0	0
90°	0	



TEST NUMBER: P249932

CATALOG NUMBER: LSR8B90D010 EC8B90950 8LBM0H

CANDELA DISTRIBUTION (FULL):

0°	
0°	8846.5
1°	8859.7
2°	8849.2
3°	8814.9
4°	8756.9
5°	8683.1
6°	8575.0
7°	8456.4
8°	8319.3
9°	8169.1
10°	8010.9
11°	7852.7
12°	7689.3
13°	7523.2
14°	7365.1
15°	7212.2
16°	7067.2
17°	6927.5
18°	6801.0
19°	6669.2
20°	6534.7
22.5°	6200.0
25°	5823.0
27.5°	5324.8
30°	4718.5
32.5°	3988.3
35°	3210.7
37.5°	2451.5
40°	1768.8
42.5°	1252.1
45°	872.5
47.5°	614.2
50°	413.9
52.5°	303.1
55°	208.2
57.5°	150.3
60°	100.2
62.5°	73.8
65°	50.1
67.5°	34.3
70°	18.5
72.5°	13.2
75°	7.9
77.5°	2.6
80°	2.6



TEST NUMBER: P249932

CATALOG NUMBER: LSR8B90D010 EC8B90950 8LBM0H

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)