

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: P247232

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100927 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9321.7 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

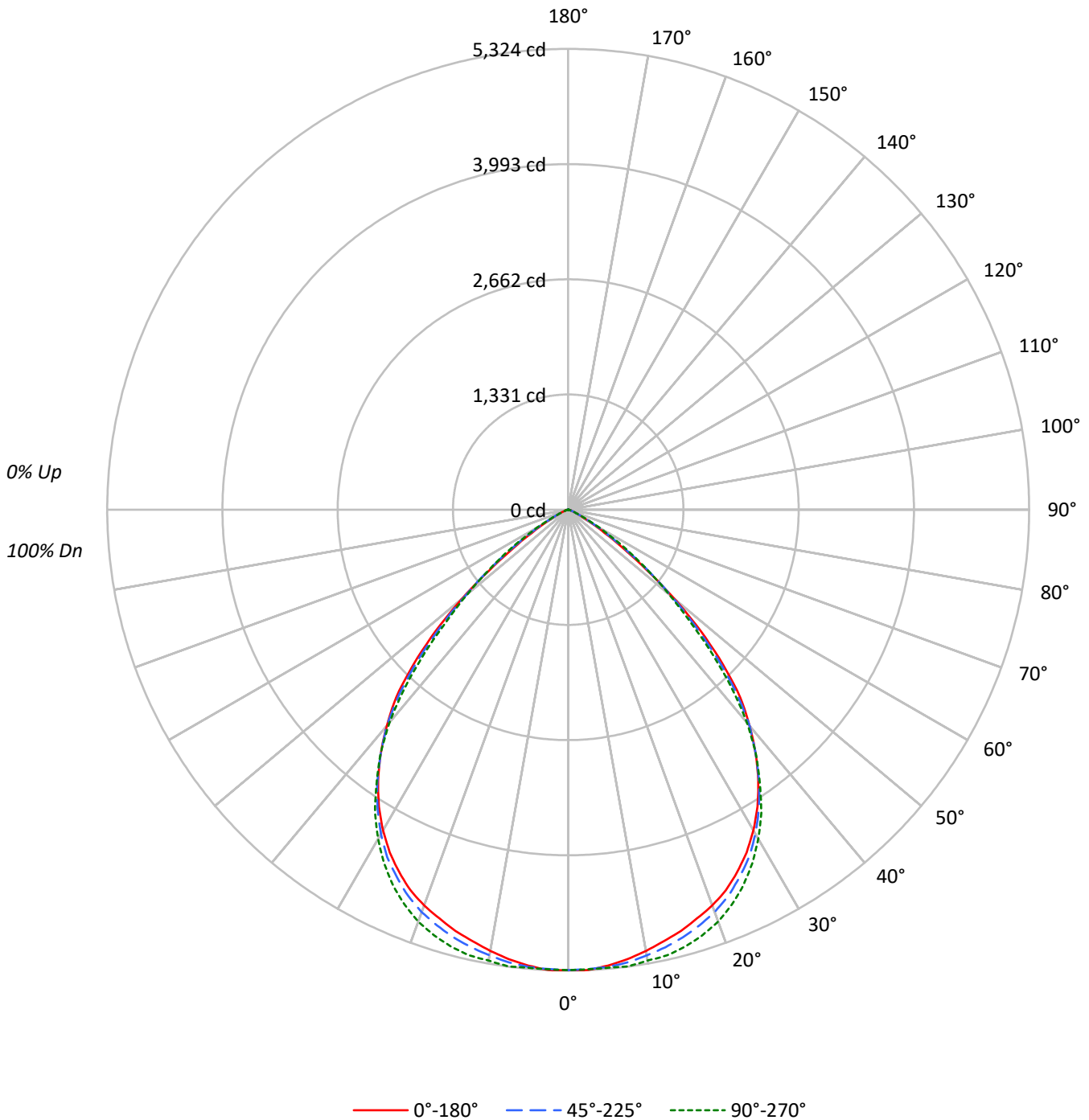
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247232

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBS0H

Luminous Intensity Polar Plot





TEST NUMBER: P247232

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBS0H

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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P247232

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBS0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.9	5.4
10°-20°	1445.2	15.5
20°-30°	2156.3	23.1
30°-40°	2388.1	25.6
40°-50°	1862.4	20.0
50°-60°	780.6	8.4
60°-70°	156.4	1.7
70°-80°	24.8	0.3
80°-90°	3.9	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°	4105.4	44.0
0°-40°	6493.6	69.7
0°-60°	9136.6	98.0
0°-90°	9321.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9321.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5320	5320	5320	5320	5320	
5°	5286	5290	5301	5316	5313	501
15°	5037	5059	5116	5191	5226	1421
25°	4619	4638	4684	4756	4787	2123
35°	3826	3820	3844	3862	3858	2378
45°	2530	2518	2453	2378	2347	1914
55°	762	792	843	876	893	743
65°	119	119	120	129	125	144
75°	35	32	32	24	22	28
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



TEST NUMBER: P247232

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBS0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5319.7	5319.7	5319.7	5319.7	5319.7
2.5°	5323.8	5313.6	5311.6	5317.7	5313.6
5°	5286.2	5290.2	5301.4	5315.6	5312.6
7.5°	5237.3	5244.4	5274.9	5311.6	5320.8
10°	5176.2	5191.4	5228.1	5269.8	5289.2
12.5°	5104.9	5125.3	5178.3	5238.3	5273.9
15°	5036.7	5059.1	5116.2	5191.4	5226.1
17.5°	4951.2	4980.7	5036.7	5118.2	5153.8
20°	4865.7	4892.2	4946.2	5025.6	5065.2
22.5°	4759.9	4779.2	4830.1	4897.2	4938.0
25°	4619.4	4637.7	4683.5	4755.8	4787.3
27.5°	4462.7	4484.0	4525.8	4575.6	4604.2
30°	4277.4	4294.7	4324.2	4368.9	4390.3
32.5°	4068.7	4069.7	4099.3	4132.8	4152.2
35°	3826.5	3820.3	3843.7	3862.0	3858.0
37.5°	3558.7	3559.7	3557.7	3559.7	3563.8
40°	3259.5	3245.2	3256.4	3230.9	3212.5
42.5°	2941.9	2927.6	2883.8	2827.8	2797.3
45°	2529.6	2518.4	2453.2	2377.9	2347.3
47.5°	2076.6	2042.0	1989.0	1924.9	1895.4
50°	1597.2	1593.1	1561.5	1546.2	1519.8
52.5°	1142.1	1142.1	1180.8	1174.7	1173.7
55°	762.4	792.0	842.8	876.5	892.7
57.5°	496.8	524.2	567.0	602.7	618.9
60°	321.6	334.9	365.4	393.0	412.3
62.5°	199.5	210.7	227.0	244.4	251.4
65°	119.1	119.1	120.2	129.3	125.2
67.5°	80.4	83.5	79.4	79.4	89.6
70°	51.9	48.8	47.8	46.8	46.8
72.5°	33.6	28.5	30.5	32.6	28.5
75°	34.6	31.5	31.5	24.4	22.4
77.5°	12.3	13.3	9.1	7.1	6.1
80°	1.0	4.0	4.0	1.0	0.0
82.5°	12.3	11.2	9.1	14.3	9.1
85°	1.0	2.0	1.0	0.0	5.1
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)