

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: P247661

Luminaire Tested: **LD8B120D010 ER8B120950 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120950 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10563.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

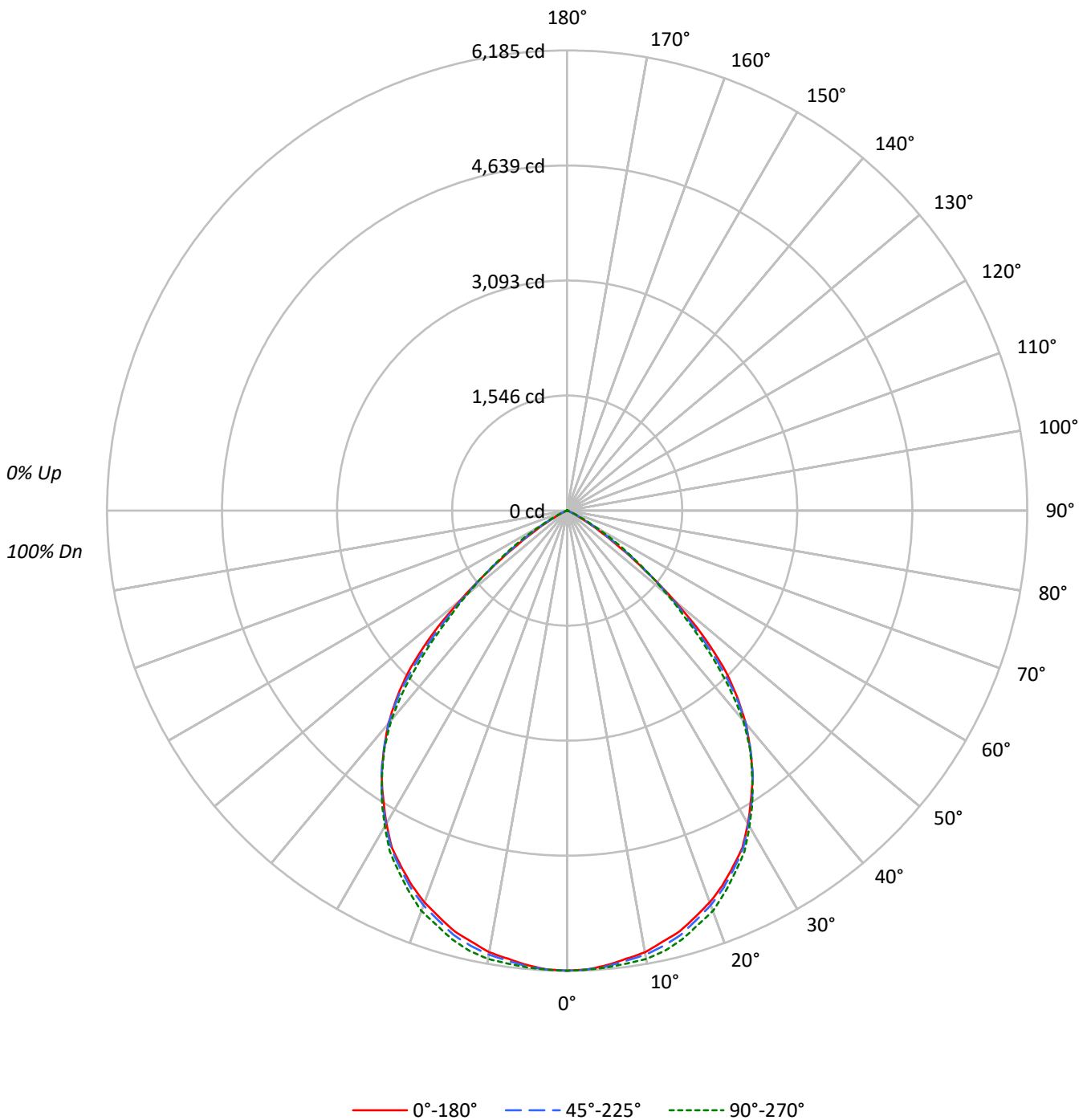
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247661

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBS0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247661

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBS0B

**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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	190716	190716	190716
5°	189848	190352	190817
10°	188768	189788	191576
15°	186865	188467	190507
20°	183877	185216	187933
25°	179606	180576	182192
30°	172967	173401	174512
35°	163583	163839	163176
40°	150320	150155	148078
45°	129257	123985	118298
50°	89863	86672	84259
55°	46885	50977	53971
60°	19020	22455	26057
65°	6049	7435	7931
70°	857	487	243
75°	0	0	0
80°	2166	479	728
85°	0	0	0



TEST NUMBER: P247661

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBS0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.1	5.5
10°-20°	1662.1	15.7
20°-30°	2441.8	23.1
30°-40°	2703.3	25.6
40°-50°	2154.4	20.4
50°-60°	882.8	8.4
60°-70°	130.0	1.2
70°-80°	1.9	0.0
80°-90°	2.7	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°	4688.0	44.4
0°-40°	7391.3	70.0
0°-60°	10428.5	98.7
0°-90°	10563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6185	6185	6185	6185	6185	
5°	6133	6144	6150	6159	6164	582
15°	5853	5858	5904	5959	5968	1647
25°	5279	5273	5307	5338	5355	2428
35°	4346	4340	4352	4347	4335	2701
45°	2964	2937	2843	2737	2713	2224
55°	872	902	948	1002	1004	839
65°	83	87	102	111	109	110
75°	0	0	0	0	0	4
85°	0	0	0	5	0	5
90°	0	0	0	0	0	



TEST NUMBER: P247661

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBS0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6184.8	6184.8	6184.8	6184.8	6184.8
2.5°	6174.0	6175.3	6175.3	6168.5	6176.7
5°	6133.2	6144.1	6149.5	6159.0	6164.5
7.5°	6076.2	6073.4	6102.0	6135.9	6140.0
10°	6028.6	6023.2	6061.2	6106.0	6118.3
12.5°	5934.9	5941.7	5990.6	6036.8	6061.2
15°	5853.4	5857.5	5903.6	5959.3	5967.5
17.5°	5727.0	5739.3	5770.5	5828.9	5839.8
20°	5603.4	5608.9	5644.2	5691.7	5727.0
22.5°	5452.6	5462.2	5489.3	5531.4	5549.1
25°	5278.8	5273.3	5307.3	5338.5	5354.8
27.5°	5102.2	5092.7	5118.5	5148.4	5163.3
30°	4857.7	4854.9	4869.9	4888.9	4901.1
32.5°	4600.9	4607.7	4622.7	4628.1	4632.2
35°	4345.5	4340.1	4352.3	4346.9	4334.7
37.5°	4042.6	4046.7	4046.7	4041.3	4035.8
40°	3734.3	3738.3	3730.2	3700.3	3678.6
42.5°	3372.9	3375.6	3333.5	3267.0	3222.1
45°	2964.0	2936.9	2843.1	2737.2	2712.7
47.5°	2449.2	2403.0	2305.2	2225.1	2196.5
50°	1873.2	1839.3	1806.7	1764.6	1756.4
52.5°	1313.6	1331.2	1343.5	1357.0	1353.0
55°	872.1	902.0	948.2	1002.5	1003.9
57.5°	524.3	558.3	616.7	676.5	705.0
60°	308.4	321.9	364.1	408.9	422.5
62.5°	167.1	171.2	190.2	235.0	228.2
65°	82.9	86.9	101.9	111.4	108.7
67.5°	40.8	44.8	47.5	61.1	50.3
70°	9.5	2.7	5.4	6.8	2.7
72.5°	0.0	0.0	2.7	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.7	0.0	0.0	0.0	5.4
80°	12.2	8.2	2.7	2.7	4.1
82.5°	4.1	1.4	4.1	1.4	0.0
85°	0.0	0.0	0.0	5.4	0.0
87.5°	6.8	1.4	1.4	4.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)