

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: P247201

Luminaire Tested: **LD8B120D010 ER8B120835 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247201  
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: LD8B120D010 ER8B120835 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13491.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

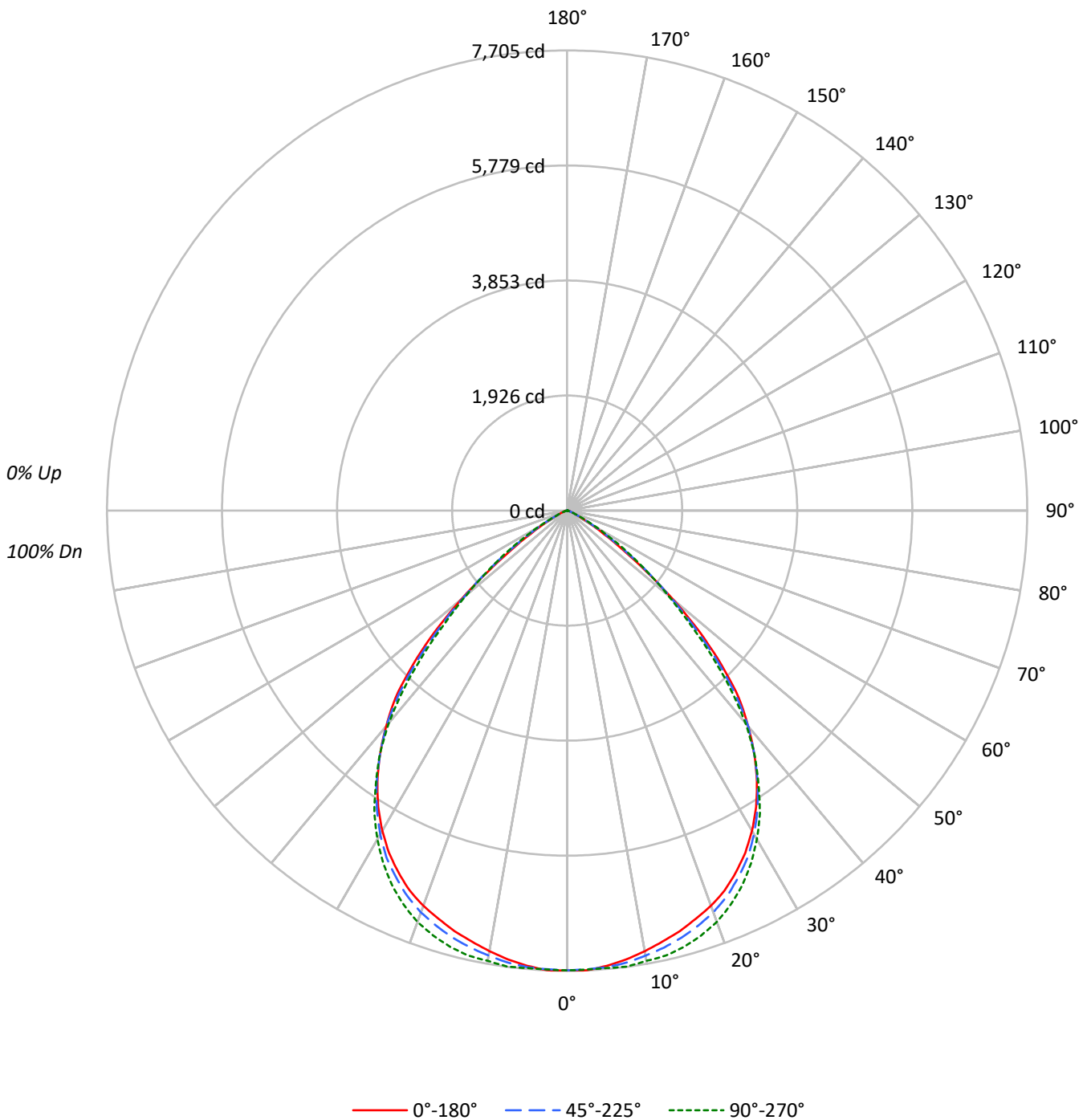
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247201

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBS0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247201

CATALOG NUMBER: LD8B120D010 ER8B120835 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	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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	237409	237409	237409
5°	236811	237495	237997
10°	234568	236919	239687
15°	232711	236379	241458
20°	231085	234905	240559
25°	227468	230626	235736
30°	220423	222834	226245
35°	208466	209411	210186
40°	189886	189709	187161
45°	159649	154834	148149
50°	110889	108414	105516
55°	59320	65578	69460
60°	28709	32619	36800
65°	12579	12681	13221
70°	6771	6239	6113
75°	5969	5445	3860
80°	266	1048	0
85°	531	531	2618



TEST NUMBER: P247201

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBS0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.3	5.4
10°-20°	2091.5	15.5
20°-30°	3120.8	23.1
30°-40°	3456.3	25.6
40°-50°	2695.4	20.0
50°-60°	1129.8	8.4
60°-70°	226.3	1.7
70°-80°	36.0	0.3
80°-90°	5.6	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°	5941.7	44.0
0°-40°	9397.9	69.7
0°-60°	13223.1	98.0
0°-90°	13491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13491.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7699	7699	7699	7699	7699	
5°	7650	7656	7672	7693	7689	725
15°	7290	7322	7404	7513	7564	2056
25°	6686	6712	6778	6883	6928	3072
35°	5538	5529	5563	5589	5584	3442
45°	3661	3645	3550	3441	3397	2770
55°	1103	1146	1220	1268	1292	1075
65°	172	172	174	187	181	208
75°	50	46	46	35	32	41
85°	2	3	2	0	7	5
90°	0	0	0	0	0	



TEST NUMBER: P247201

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBS0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7699.0	7699.0	7699.0	7699.0	7699.0
2.5°	7704.9	7690.2	7687.2	7696.1	7690.2
5°	7650.4	7656.3	7672.5	7693.1	7688.7
7.5°	7579.7	7590.0	7634.2	7687.2	7700.5
10°	7491.3	7513.4	7566.4	7626.8	7654.8
12.5°	7388.2	7417.6	7494.3	7581.2	7632.7
15°	7289.5	7321.9	7404.4	7513.4	7563.5
17.5°	7165.7	7208.4	7289.5	7407.3	7458.9
20°	7042.0	7080.3	7158.4	7273.3	7330.7
22.5°	6888.8	6916.8	6990.4	7087.6	7146.6
25°	6685.5	6712.0	6778.3	6882.9	6928.5
27.5°	6458.6	6489.5	6549.9	6622.1	6663.4
30°	6190.5	6215.5	6258.2	6323.0	6354.0
32.5°	5888.4	5889.9	5932.6	5981.3	6009.3
35°	5537.8	5529.0	5562.9	5589.4	5583.5
37.5°	5150.4	5151.8	5148.9	5151.8	5157.7
40°	4717.2	4696.6	4712.8	4676.0	4649.5
42.5°	4257.6	4237.0	4173.6	4092.6	4048.4
45°	3660.9	3644.7	3550.5	3441.4	3397.2
47.5°	3005.4	2955.3	2878.7	2785.9	2743.1
50°	2311.5	2305.6	2259.9	2237.8	2199.5
52.5°	1652.9	1652.9	1708.9	1700.1	1698.6
55°	1103.4	1146.2	1219.8	1268.4	1292.0
57.5°	718.9	758.7	820.6	872.1	895.7
60°	465.5	484.7	528.9	568.7	596.7
62.5°	288.8	305.0	328.5	353.6	363.9
65°	172.4	172.4	173.8	187.1	181.2
67.5°	116.4	120.8	114.9	114.9	129.6
70°	75.1	70.7	69.2	67.8	67.8
72.5°	48.6	41.3	44.2	47.1	41.3
75°	50.1	45.7	45.7	35.4	32.4
77.5°	17.7	19.2	13.3	10.3	8.8
80°	1.5	5.9	5.9	1.5	0.0
82.5°	17.7	16.2	13.3	20.6	13.3
85°	1.5	2.9	1.5	0.0	7.4
87.5°	0.0	0.0	0.0	1.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)