

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: P247449

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120850 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13925.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

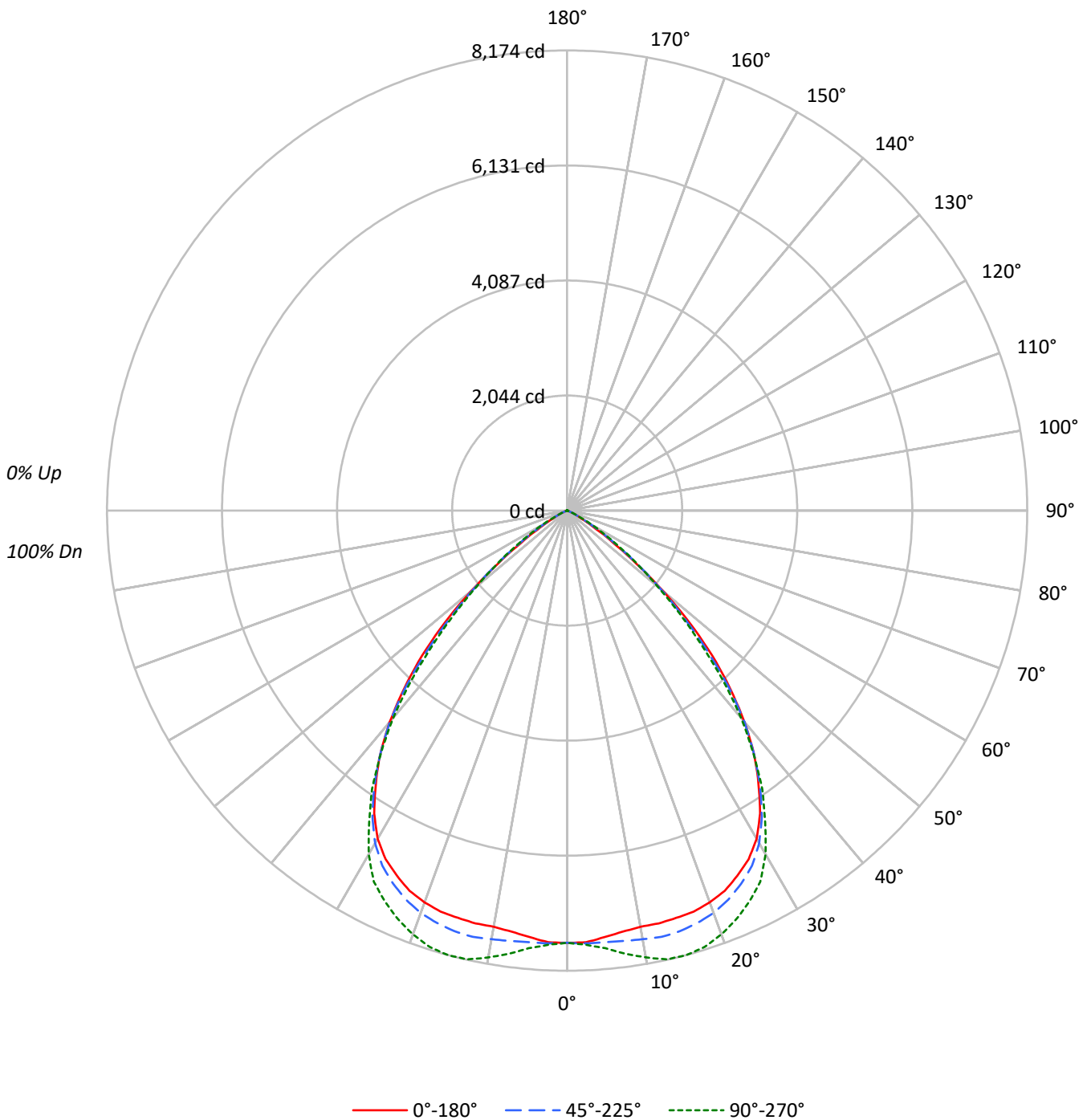
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247449

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBS0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P247449

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBS0WH

**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	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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	236743	236743	236743
5°	235428	238248	241572
10°	235022	242076	252356
15°	239137	246952	260957
20°	243024	249538	262854
25°	243446	248829	260608
30°	239733	242866	250945
35°	223117	224578	227386
40°	197200	196959	193416
45°	158846	152924	147002
50°	106663	103871	100364
55°	54149	58804	62412
60°	22177	27148	31657
65°	8274	8821	10346
70°	541	541	406
75°	1072	1775	2311
80°	266	0	0
85°	1061	0	1061



TEST NUMBER: P247449

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBS0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.2	5.3
10°-20°	2197.1	15.8
20°-30°	3380.9	24.3
30°-40°	3703.0	26.6
40°-50°	2692.5	19.3
50°-60°	1035.8	7.4
60°-70°	162.2	1.2
70°-80°	11.7	0.1
80°-90°	4.7	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°	6315.2	45.4
0°-40°	10018.2	71.9
0°-60°	13746.4	98.7
0°-90°	13925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7677	7677	7677	7677	7677	
5°	7606	7644	7697	7770	7804	723
15°	7491	7549	7736	8022	8174	2119
25°	7155	7198	7313	7530	7660	3291
35°	5927	5927	5966	6003	6040	3681
45°	3642	3605	3507	3417	3371	2769
55°	1007	1034	1094	1130	1161	984
65°	113	118	121	137	142	139
75°	9	19	15	19	19	12
85°	3	0	0	0	3	7
90°	0	0	0	0	0	



TEST NUMBER: P247449

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBS0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7677.4	7677.4	7677.4	7677.4	7677.4
2.5°	7675.9	7687.8	7695.3	7711.7	7719.2
5°	7605.7	7644.5	7696.8	7769.9	7804.2
7.5°	7544.6	7598.3	7710.2	7868.4	7938.5
10°	7505.8	7564.0	7731.1	7946.0	8059.4
12.5°	7510.2	7574.4	7755.0	8013.1	8165.3
15°	7490.8	7549.0	7735.6	8022.1	8174.3
17.5°	7468.5	7516.2	7681.8	7962.4	8126.5
20°	7405.8	7446.1	7604.3	7857.9	8010.1
22.5°	7311.8	7349.1	7480.4	7716.2	7856.4
25°	7155.1	7198.4	7313.3	7529.6	7659.5
27.5°	6980.5	7005.9	7111.8	7308.8	7432.6
30°	6732.8	6741.8	6820.8	6973.1	7047.7
32.5°	6379.2	6377.7	6437.4	6513.5	6541.8
35°	5927.0	5927.0	5965.8	6003.1	6040.4
37.5°	5457.0	5451.0	5455.5	5464.4	5433.1
40°	4898.9	4887.0	4892.9	4839.2	4804.9
42.5°	4287.1	4297.5	4237.8	4142.3	4106.5
45°	3642.5	3605.2	3506.7	3417.1	3370.9
47.5°	2957.5	2899.3	2805.3	2712.8	2705.4
50°	2223.4	2226.4	2165.2	2113.0	2092.1
52.5°	1542.9	1559.3	1590.7	1596.7	1604.1
55°	1007.2	1034.1	1093.8	1129.6	1160.9
57.5°	616.3	665.5	716.3	783.4	789.4
60°	359.6	383.5	440.2	490.9	513.3
62.5°	202.9	225.3	237.3	267.1	274.6
65°	113.4	117.9	120.9	137.3	141.8
67.5°	68.6	71.6	74.6	73.1	76.1
70°	6.0	13.4	6.0	7.5	4.5
72.5°	25.4	16.4	17.9	13.4	9.0
75°	9.0	19.4	14.9	19.4	19.4
77.5°	6.0	4.5	7.5	9.0	7.5
80°	1.5	0.0	0.0	0.0	0.0
82.5°	13.4	11.9	7.5	11.9	4.5
85°	3.0	0.0	0.0	0.0	3.0
87.5°	9.0	4.5	4.5	10.4	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)