

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: P247901

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150950 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16725.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

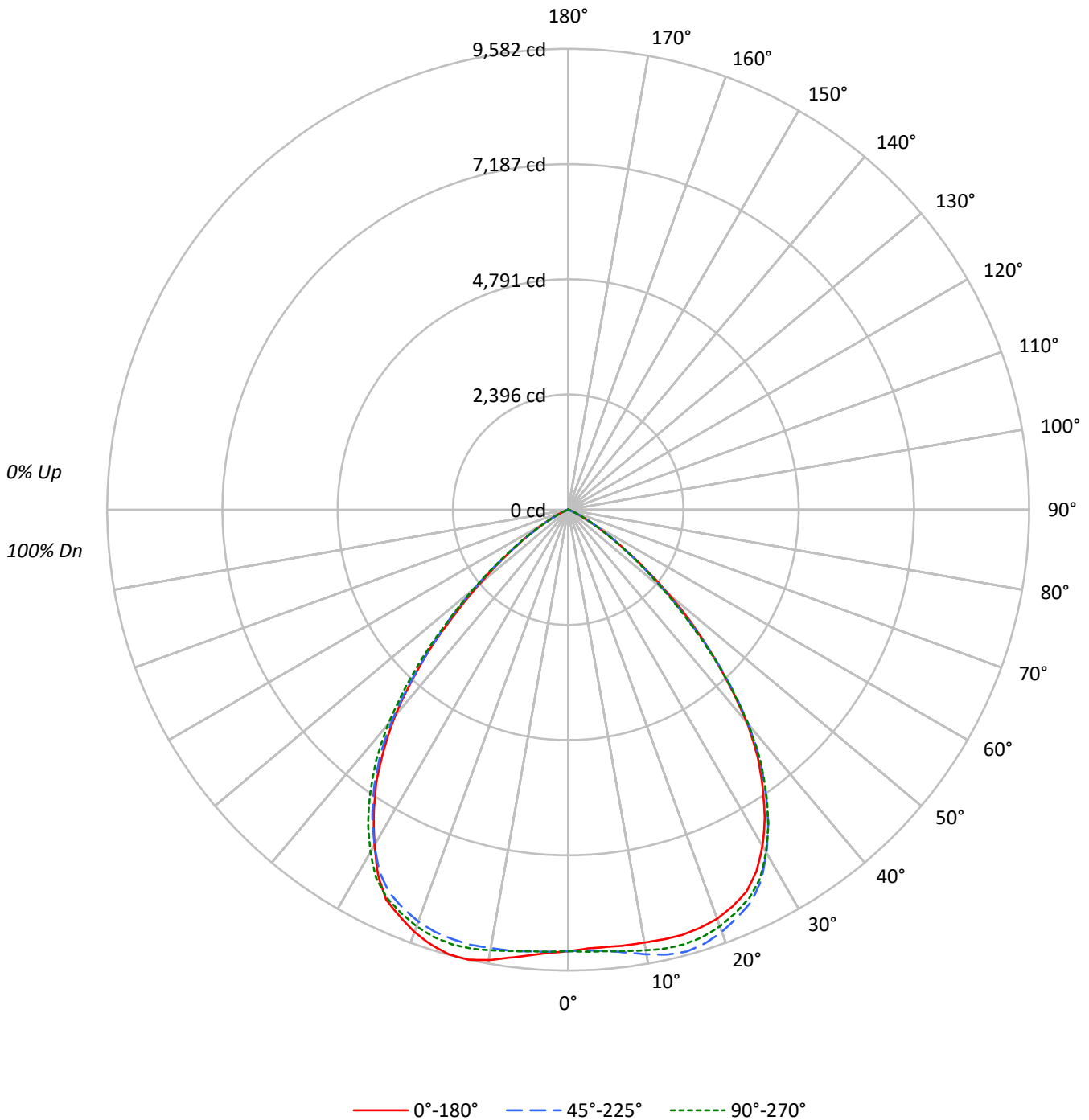
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247901

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBS0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P247901

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBSOLI

**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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

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

	0°	90°	180°
0°	283056	283056	283056
5°	282509	285220	287876
10°	286063	291289	297758
15°	292246	298573	305523
20°	297015	302492	306666
25°	298167	303029	304502
30°	287606	292630	286588
35°	265252	269905	261955
40°	232563	234306	225398
45°	182618	181126	174210
50°	129752	123693	115240
55°	77191	74417	69707
60°	38730	37139	36856
65°	16286	15680	16081
70°	6068	5238	5076
75°	2419	2633	2633
80°	2788	1971	657
85°	2937	5555	2300



TEST NUMBER: P247901

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBS0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.8	5.3
10°-20°	2643.1	15.8
20°-30°	4062.1	24.3
30°-40°	4394.5	26.3
40°-50°	3167.4	18.9
50°-60°	1285.7	7.7
60°-70°	256.8	1.5
70°-80°	25.7	0.2
80°-90°	6.9	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°	7588.0	45.4
0°-40°	11982.4	71.6
0°-60°	16435.6	98.3
0°-90°	16725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9179	9179	9179	9179	9179	
5°	9127	9204	9214	9218	9300	872
15°	9154	9509	9353	9248	9570	2587
25°	8763	8997	8906	8792	8950	4006
35°	7046	7150	7170	7023	6959	4376
45°	4188	4208	4153	4014	3995	3230
55°	1436	1392	1384	1337	1297	1347
65°	223	242	215	205	220	266
75°	20	25	22	21	22	27
85°	8	12	16	7	6	7
90°	0	0	0	0	0	



TEST NUMBER: P247901

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBSOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9179.3	9179.3	9179.3	9179.3	9179.3	9179.3	9179.3	9179.3	9179.3
2.5°	9132.2	9190.3	9171.0	9146.1	9198.6	9188.5	9199.5	9204.2	9221.7
5°	9126.7	9192.2	9204.2	9177.4	9214.3	9196.8	9218.0	9257.6	9300.1
7.5°	9135.9	9234.6	9286.2	9270.6	9253.0	9193.1	9248.4	9339.7	9396.0
10°	9135.9	9266.9	9386.7	9385.8	9302.8	9191.2	9253.0	9410.7	9509.4
12.5°	9150.7	9311.1	9475.3	9486.3	9345.2	9204.2	9270.6	9456.8	9582.2
15°	9154.4	9312.0	9509.4	9514.9	9352.6	9186.6	9248.4	9448.5	9570.3
17.5°	9115.6	9267.8	9455.0	9474.4	9311.1	9142.4	9205.1	9384.0	9480.8
20°	9051.1	9187.6	9339.7	9372.0	9218.0	9057.5	9112.9	9266.9	9345.2
22.5°	8927.5	9052.0	9177.4	9201.4	9077.8	8937.6	8965.3	9085.2	9150.7
25°	8763.4	8886.9	8996.7	9009.6	8906.3	8780.9	8791.9	8883.2	8949.6
27.5°	8472.0	8589.1	8688.7	8704.3	8642.6	8508.8	8488.6	8531.9	8559.6
30°	8077.3	8157.5	8240.5	8290.3	8218.4	8107.7	8050.5	8073.6	8048.7
32.5°	7603.3	7685.3	7736.1	7751.7	7740.7	7643.8	7576.5	7518.4	7522.1
35°	7046.3	7121.0	7149.6	7178.2	7169.9	7094.2	7023.2	6968.8	6958.7
37.5°	6462.6	6512.3	6544.6	6566.8	6548.3	6500.4	6408.1	6314.1	6298.4
40°	5777.4	5853.0	5827.2	5838.2	5820.7	5759.9	5667.6	5614.2	5599.4
42.5°	4973.3	5039.6	5034.1	5037.8	4999.1	4916.1	4835.8	4806.3	4790.7
45°	4187.6	4219.8	4207.9	4169.1	4153.4	4101.8	4014.2	3957.9	3994.8
47.5°	3448.0	3436.9	3356.7	3325.3	3302.3	3309.7	3290.3	3191.6	3138.1
50°	2704.7	2676.1	2599.6	2552.6	2578.4	2598.7	2526.7	2467.7	2402.2
52.5°	2005.7	2011.2	1938.4	1886.8	1910.7	1914.4	1872.0	1838.8	1819.4
55°	1435.8	1435.8	1391.6	1375.0	1384.2	1366.7	1337.1	1326.1	1296.6
57.5°	976.6	983.0	980.3	960.9	917.6	901.9	885.3	901.9	912.0
60°	628.0	643.7	640.9	639.1	602.2	565.3	581.0	595.7	597.6
62.5°	386.4	393.8	406.7	395.6	377.2	347.7	344.0	366.1	386.4
65°	223.2	231.5	241.6	234.2	214.9	210.3	204.7	216.7	220.4
67.5°	127.3	123.6	124.5	119.0	113.4	107.0	107.9	113.4	121.7
70°	67.3	58.1	59.0	53.5	58.1	51.6	49.8	54.4	56.3
72.5°	34.1	33.2	37.8	37.8	40.6	36.0	36.0	34.1	38.7
75°	20.3	23.1	24.9	27.7	22.1	21.2	21.2	21.2	22.1
77.5°	5.5	2.8	3.7	12.0	4.6	9.2	4.6	3.7	8.3
80°	15.7	9.2	5.5	10.1	11.1	5.5	13.8	12.9	3.7
82.5°	5.5	0.0	10.1	11.1	9.2	9.2	11.1	11.1	10.1
85°	8.3	5.5	12.0	13.8	15.7	9.2	7.4	4.6	6.5
87.5°	3.7	0.0	5.5	4.6	2.8	0.9	2.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)