

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: P247880

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247880  
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 EC8B150835 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18137.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

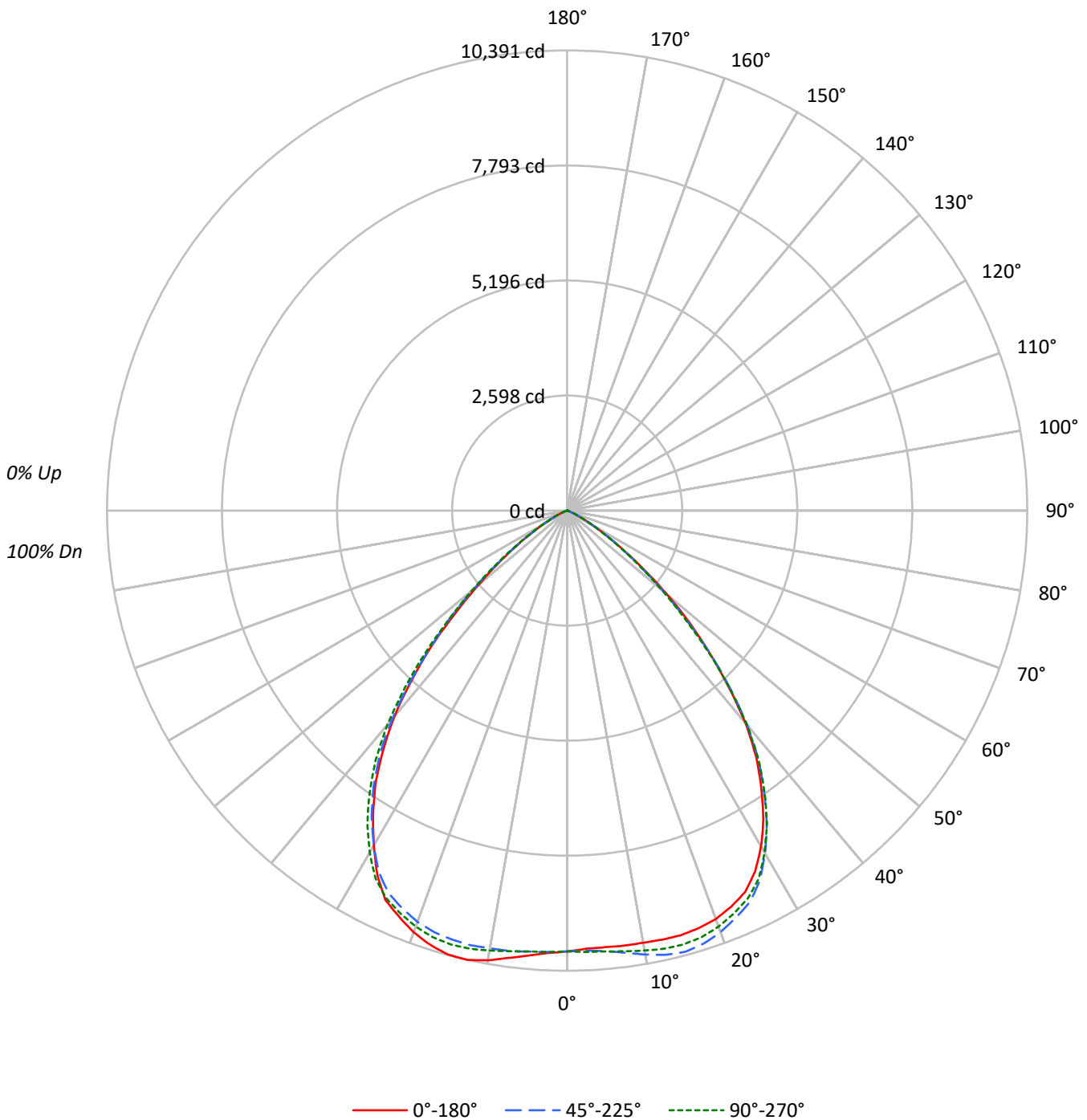
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	306951	306951	306951
5°	306359	309300	312178
10°	310214	315882	322896
15°	316917	323781	331315
20°	322089	328029	332557
25°	323338	328612	330211
30°	311886	317334	310782
35°	287647	292691	284071
40°	252195	254087	244426
45°	198033	196420	188919
50°	140709	134137	124974
55°	83707	80696	75589
60°	41999	40272	39964
65°	17658	17001	17439
70°	6582	5680	5500
75°	2621	2859	2859
80°	3019	2131	710
85°	3184	6015	2477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.3	5.3
10°-20°	2866.2	15.8
20°-30°	4405.1	24.3
30°-40°	4765.5	26.3
40°-50°	3434.8	18.9
50°-60°	1394.3	7.7
60°-70°	278.5	1.5
70°-80°	27.9	0.2
80°-90°	7.5	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°	8228.6	45.4
0°-40°	12994.0	71.6
0°-60°	17823.1	98.3
0°-90°	18137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9954	9954	9954	9954	9954	
5°	9897	9981	9992	9996	10085	946
15°	9927	10312	10142	10029	10378	2805
25°	9503	9756	9658	9534	9705	4344
35°	7641	7753	7775	7616	7546	4745
45°	4541	4563	4504	4353	4332	3503
55°	1557	1509	1501	1450	1406	1461
65°	242	262	233	222	239	288
75°	22	27	24	23	24	29
85°	9	13	17	8	7	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9954.2	9954.2	9954.2	9954.2	9954.2	9954.2	9954.2	9954.2	9954.2
2.5°	9903.2	9966.2	9945.2	9918.2	9975.2	9964.2	9976.2	9981.2	10000.2
5°	9897.2	9968.2	9981.2	9952.2	9992.2	9973.2	9996.2	10039.2	10085.2
7.5°	9907.2	10014.2	10070.2	10053.2	10034.2	9969.2	10029.2	10128.2	10189.2
10°	9907.2	10049.2	10179.2	10178.2	10088.2	9967.2	10034.2	10205.2	10312.2
12.5°	9923.2	10097.2	10275.2	10287.2	10134.2	9981.2	10053.2	10255.2	10391.2
15°	9927.2	10098.2	10312.2	10318.2	10142.2	9962.2	10029.2	10246.2	10378.2
17.5°	9885.2	10050.2	10253.2	10274.2	10097.2	9914.2	9982.2	10176.2	10281.2
20°	9815.2	9963.2	10128.2	10163.2	9996.2	9822.2	9882.2	10049.2	10134.2
22.5°	9681.2	9816.2	9952.2	9978.2	9844.2	9692.2	9722.2	9852.2	9923.2
25°	9503.2	9637.2	9756.2	9770.2	9658.2	9522.2	9534.2	9633.2	9705.2
27.5°	9187.2	9314.2	9422.2	9439.2	9372.2	9227.2	9205.2	9252.2	9282.2
30°	8759.2	8846.2	8936.2	8990.2	8912.2	8792.2	8730.2	8755.2	8728.2
32.5°	8245.2	8334.2	8389.2	8406.2	8394.2	8289.2	8216.2	8153.2	8157.2
35°	7641.2	7722.2	7753.2	7784.2	7775.2	7693.2	7616.2	7557.2	7546.2
37.5°	7008.1	7062.1	7097.2	7121.2	7101.2	7049.1	6949.1	6847.1	6830.1
40°	6265.1	6347.1	6319.1	6331.1	6312.1	6246.1	6146.1	6088.1	6072.1
42.5°	5393.1	5465.1	5459.1	5463.1	5421.1	5331.1	5244.1	5212.1	5195.1
45°	4541.1	4576.1	4563.1	4521.1	4504.1	4448.1	4353.1	4292.1	4332.1
47.5°	3739.1	3727.1	3640.1	3606.1	3581.1	3589.1	3568.1	3461.1	3403.1
50°	2933.1	2902.1	2819.1	2768.1	2796.1	2818.1	2740.1	2676.1	2605.1
52.5°	2175.0	2181.0	2102.0	2046.0	2072.0	2076.0	2030.0	1994.0	1973.0
55°	1557.0	1557.0	1509.0	1491.0	1501.0	1482.0	1450.0	1438.0	1406.0
57.5°	1059.0	1066.0	1063.0	1042.0	995.0	978.0	960.0	978.0	989.0
60°	681.0	698.0	695.0	693.0	653.0	613.0	630.0	646.0	648.0
62.5°	419.0	427.0	441.0	429.0	409.0	377.0	373.0	397.0	419.0
65°	242.0	251.0	262.0	254.0	233.0	228.0	222.0	235.0	239.0
67.5°	138.0	134.0	135.0	129.0	123.0	116.0	117.0	123.0	132.0
70°	73.0	63.0	64.0	58.0	63.0	56.0	54.0	59.0	61.0
72.5°	37.0	36.0	41.0	41.0	44.0	39.0	39.0	37.0	42.0
75°	22.0	25.0	27.0	30.0	24.0	23.0	23.0	23.0	24.0
77.5°	6.0	3.0	4.0	13.0	5.0	10.0	5.0	4.0	9.0
80°	17.0	10.0	6.0	11.0	12.0	6.0	15.0	14.0	4.0
82.5°	6.0	0.0	11.0	12.0	10.0	10.0	12.0	12.0	11.0
85°	9.0	6.0	13.0	15.0	17.0	10.0	8.0	5.0	7.0
87.5°	4.0	0.0	6.0	5.0	3.0	1.0	3.0	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)