

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: P247883

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247883  
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 EC8B150840 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18018.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

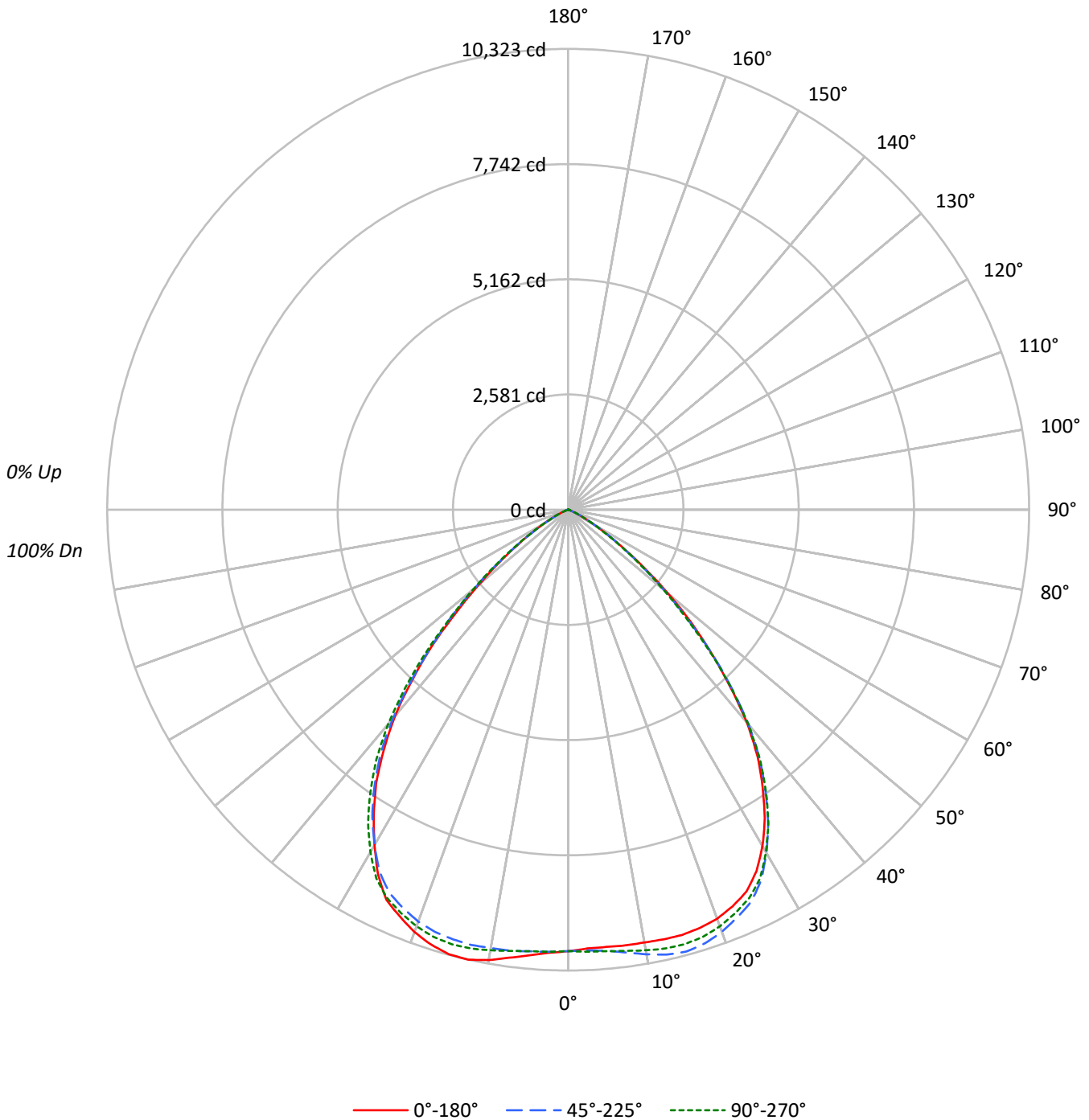
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	304937	304937	304937
5°	304350	307272	310129
10°	308179	313809	320779
15°	314839	321658	329141
20°	319976	325876	330375
25°	321215	326455	328043
30°	309839	315251	308742
35°	285757	290771	282203
40°	250541	252420	242824
45°	196734	195129	187681
50°	139783	133254	124154
55°	83158	80169	75094
60°	41722	40007	39705
65°	17541	16891	17322
70°	6537	5644	5464
75°	2609	2836	2836
80°	3001	2113	710
85°	3149	5979	2477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	951.0	5.3
10°-20°	2847.4	15.8
20°-30°	4376.2	24.3
30°-40°	4734.2	26.3
40°-50°	3412.3	18.9
50°-60°	1385.1	7.7
60°-70°	276.6	1.5
70°-80°	27.7	0.2
80°-90°	7.4	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°	8174.6	45.4
0°-40°	12908.8	71.6
0°-60°	17706.2	98.3
0°-90°	18018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9889	9889	9889	9889	9889	
5°	9832	9916	9927	9931	10019	939
15°	9862	10245	10076	9963	10310	2786
25°	9441	9692	9595	9472	9642	4315
35°	7591	7702	7724	7566	7497	4714
45°	4511	4533	4474	4324	4304	3480
55°	1547	1499	1491	1440	1397	1451
65°	240	260	232	220	237	286
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°	9888.9	9888.9	9888.9	9888.9	9888.9	9888.9	9888.9	9888.9	9888.9
2.5°	9838.2	9900.8	9880.0	9853.1	9909.8	9898.8	9910.8	9915.7	9934.6
5°	9832.3	9902.8	9915.7	9886.9	9926.7	9907.8	9930.6	9973.3	10019.0
7.5°	9842.2	9948.5	10004.1	9987.3	9968.4	9903.8	9963.4	10061.8	10122.4
10°	9842.2	9983.3	10112.4	10111.4	10022.0	9901.8	9968.4	10138.3	10244.6
12.5°	9858.1	10031.0	10207.8	10219.7	10067.7	9915.7	9987.3	10187.9	10323.0
15°	9862.1	10032.0	10244.6	10250.5	10075.7	9896.8	9963.4	10179.0	10310.1
17.5°	9820.4	9984.3	10185.9	10206.8	10031.0	9849.2	9916.7	10109.4	10213.8
20°	9750.8	9897.8	10061.8	10096.5	9930.6	9757.8	9817.4	9983.3	10067.7
22.5°	9617.7	9751.8	9886.9	9912.7	9779.6	9628.6	9658.4	9787.6	9858.1
25°	9440.8	9574.0	9692.2	9706.1	9594.8	9459.7	9471.6	9570.0	9641.5
27.5°	9126.9	9253.1	9360.4	9377.3	9310.7	9166.7	9144.8	9191.5	9221.3
30°	8701.7	8788.1	8877.6	8931.2	8853.7	8734.5	8672.9	8697.7	8670.9
32.5°	8191.1	8279.5	8334.1	8351.0	8339.1	8234.8	8162.3	8099.7	8103.7
35°	7591.0	7671.5	7702.3	7733.1	7724.2	7642.7	7566.2	7507.6	7496.6
37.5°	6962.2	7015.8	7050.6	7074.4	7054.6	7002.9	6903.6	6802.2	6785.3
40°	6224.0	6305.5	6277.7	6289.6	6270.7	6205.2	6105.8	6048.2	6032.3
42.5°	5357.7	5429.3	5423.3	5427.3	5385.5	5296.1	5209.7	5177.9	5161.0
45°	4511.3	4546.1	4533.2	4491.4	4474.5	4418.9	4324.5	4263.9	4303.7
47.5°	3714.5	3702.6	3616.2	3582.4	3557.6	3565.5	3544.7	3438.4	3380.7
50°	2913.8	2883.0	2800.6	2749.9	2777.7	2799.6	2722.1	2658.5	2588.0
52.5°	2160.8	2166.7	2088.3	2032.6	2058.4	2062.4	2016.7	1981.0	1960.1
55°	1546.8	1546.8	1499.1	1481.2	1491.2	1472.3	1440.5	1428.6	1396.8
57.5°	1052.1	1059.0	1056.0	1035.2	988.5	971.6	953.7	971.6	982.5
60°	676.5	693.4	690.5	688.5	648.7	609.0	625.9	641.8	643.8
62.5°	416.3	424.2	438.1	426.2	406.3	374.5	370.6	394.4	416.3
65°	240.4	249.4	260.3	252.3	231.5	226.5	220.5	233.5	237.4
67.5°	137.1	133.1	134.1	128.2	122.2	115.2	116.2	122.2	131.1
70°	72.5	62.6	63.6	57.6	62.6	55.6	53.6	58.6	60.6
72.5°	36.8	35.8	40.7	40.7	43.7	38.7	38.7	36.8	41.7
75°	21.9	24.8	26.8	29.8	23.8	22.8	22.8	22.8	23.8
77.5°	6.0	3.0	4.0	12.9	5.0	9.9	5.0	4.0	8.9
80°	16.9	9.9	6.0	10.9	11.9	6.0	14.9	13.9	4.0
82.5°	6.0	0.0	10.9	11.9	9.9	9.9	11.9	11.9	10.9
85°	8.9	6.0	12.9	14.9	16.9	9.9	7.9	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)