

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: P247128

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100940 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10882.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

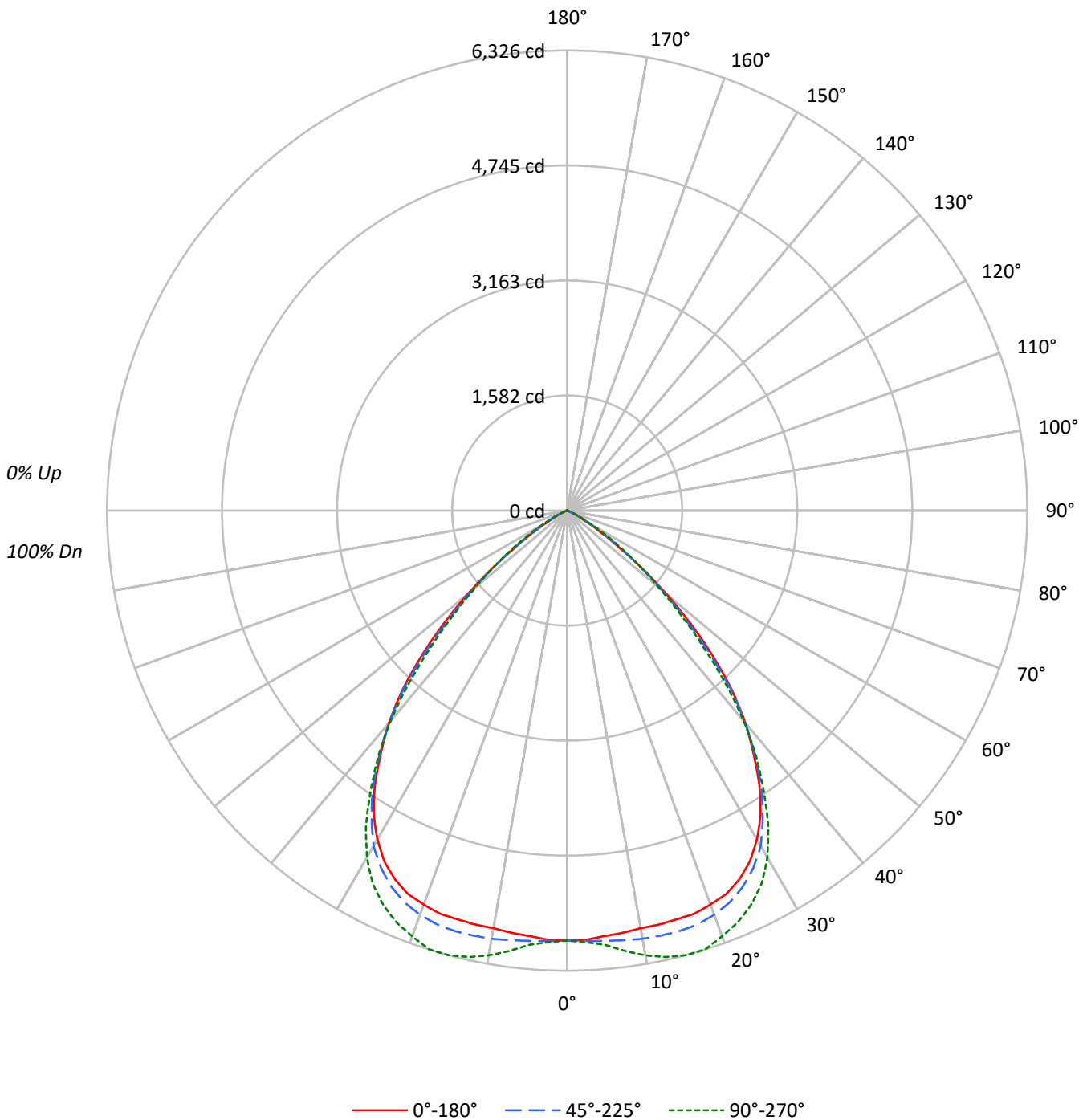
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	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	67	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	49	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	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	182273	182273	182273
5°	181787	183793	185514
10°	182511	187114	194435
15°	185674	191031	201968
20°	189108	194007	204341
25°	190365	194223	203519
30°	185867	189577	196004
35°	173498	175283	177376
40°	153424	153283	152120
45°	124068	120531	115233
50°	85233	81957	79289
55°	43869	46670	49966
60°	18274	21629	24268
65°	7092	7515	8865
70°	1875	1776	2398
75°	822	1513	1382
80°	1225	1438	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.8	5.2
10°-20°	1702.9	15.6
20°-30°	2635.1	24.2
30°-40°	2886.2	26.5
40°-50°	2111.5	19.4
50°-60°	828.5	7.6
60°-70°	134.1	1.2
70°-80°	12.4	0.1
80°-90°	2.5	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°	4906.8	45.1
0°-40°	7793.0	71.6
0°-60°	10733.1	98.6
0°-90°	10882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5911	5911	5911	5911	5911	
5°	5873	5887	5938	5980	5993	559
15°	5816	5854	5984	6206	6326	1647
25°	5595	5612	5708	5881	5982	2565
35°	4609	4617	4656	4700	4712	2854
45°	2845	2840	2764	2679	2642	2166
55°	816	833	868	899	929	803
65°	97	95	103	113	122	118
75°	7	10	13	9	12	12
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5911.0	5911.0	5911.0	5911.0	5911.0
2.5°	5905.2	5908.7	5920.2	5931.8	5938.8
5°	5872.8	5886.7	5937.6	5980.4	5993.2
7.5°	5853.1	5876.3	5956.1	6063.8	6105.4
10°	5828.8	5862.4	5975.8	6128.6	6209.6
12.5°	5830.0	5862.4	5982.7	6181.8	6286.0
15°	5816.1	5854.3	5983.9	6206.1	6326.5
17.5°	5812.6	5831.1	5963.1	6188.8	6321.9
20°	5762.8	5788.3	5912.1	6112.4	6227.0
22.5°	5708.4	5720.0	5833.4	6030.2	6127.4
25°	5595.0	5612.4	5708.4	5880.9	5981.6
27.5°	5438.8	5442.2	5539.5	5699.2	5787.1
30°	5220.0	5237.4	5324.2	5442.2	5504.7
32.5°	4949.2	4946.8	5003.6	5106.6	5147.1
35°	4608.9	4617.0	4656.3	4700.3	4711.9
37.5°	4209.6	4220.0	4246.6	4261.7	4272.1
40°	3811.4	3811.4	3807.9	3791.7	3779.0
42.5°	3357.7	3342.7	3325.3	3253.5	3222.3
45°	2845.0	2840.3	2763.9	2679.4	2642.4
47.5°	2305.6	2280.1	2200.3	2132.0	2116.9
50°	1776.7	1750.0	1708.4	1674.8	1652.8
52.5°	1266.2	1246.5	1263.9	1263.9	1261.6
55°	816.0	833.3	868.1	899.3	929.4
57.5°	517.4	540.5	593.8	634.3	644.7
60°	296.3	313.7	350.7	386.6	393.5
62.5°	186.3	187.5	211.8	232.6	245.4
65°	97.2	94.9	103.0	113.4	121.5
67.5°	40.5	40.5	48.6	47.5	60.2
70°	20.8	17.4	19.7	23.1	26.6
72.5°	15.0	11.6	16.2	20.8	9.3
75°	6.9	10.4	12.7	9.3	11.6
77.5°	9.3	9.3	6.9	11.6	2.3
80°	6.9	4.6	8.1	3.5	0.0
82.5°	1.2	2.3	1.2	1.2	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	3.5	5.8	4.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)