

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: P247132

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247132  
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 EC8B100950 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: 11267.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

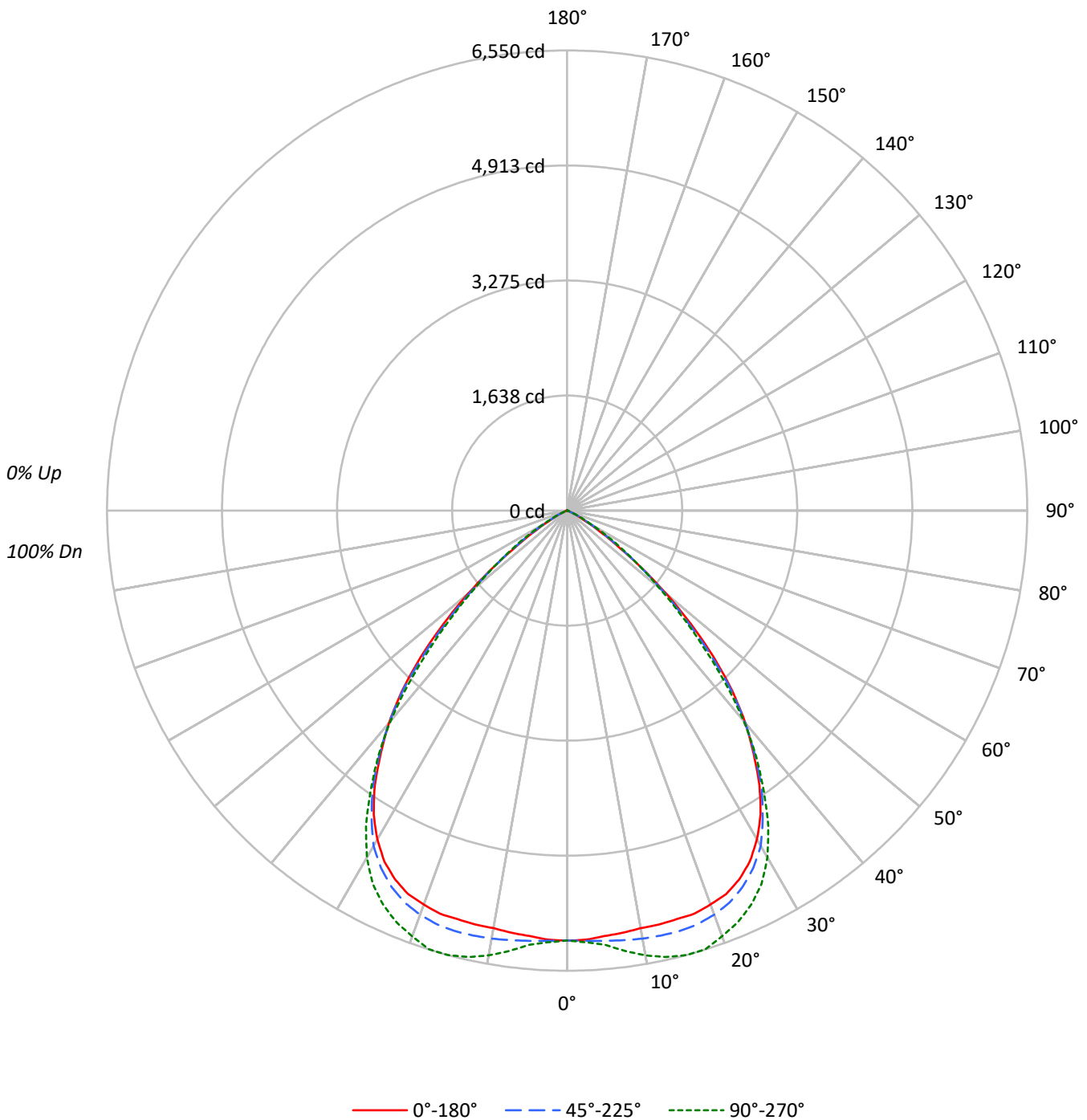
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	188721	188721	188721
5°	188220	190297	192076
10°	188968	193734	201314
15°	192241	197789	209112
20°	195799	200872	211570
25°	197102	201096	210718
30°	192444	196282	202940
35°	179634	181486	183651
40°	158854	158709	157502
45°	128455	124796	119310
50°	88246	84854	82096
55°	45423	48321	51735
60°	18921	22393	25125
65°	7348	7785	9179
70°	1947	1839	2488
75°	858	1573	1430
80°	1279	1492	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.9	5.2
10°-20°	1763.2	15.6
20°-30°	2728.3	24.2
30°-40°	2988.3	26.5
40°-50°	2186.2	19.4
50°-60°	857.8	7.6
60°-70°	138.8	1.2
70°-80°	12.8	0.1
80°-90°	2.6	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°	5080.4	45.1
0°-40°	8068.7	71.6
0°-60°	11112.8	98.6
0°-90°	11267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11267.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6120	6120	6120	6120	6120	
5°	6081	6095	6148	6192	6205	579
15°	6022	6061	6196	6426	6550	1705
25°	5793	5811	5910	6089	6193	2656
35°	4772	4780	4821	4867	4879	2955
45°	2946	2941	2862	2774	2736	2243
55°	845	863	899	931	962	831
65°	101	98	107	117	126	122
75°	7	11	13	10	12	12
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6120.1	6120.1	6120.1	6120.1	6120.1
2.5°	6114.1	6117.7	6129.7	6141.7	6148.9
5°	6080.6	6094.9	6147.7	6192.0	6205.2
7.5°	6060.2	6084.2	6166.8	6278.3	6321.4
10°	6035.0	6069.8	6187.2	6345.4	6429.3
12.5°	6036.2	6069.8	6194.4	6400.5	6508.4
15°	6021.8	6061.4	6195.6	6425.7	6550.3
17.5°	6018.3	6037.4	6174.0	6407.7	6545.5
20°	5966.7	5993.1	6121.3	6328.6	6447.3
22.5°	5910.4	5922.4	6039.8	6243.5	6344.2
25°	5793.0	5810.9	5910.4	6089.0	6193.2
27.5°	5631.2	5634.8	5735.4	5900.8	5991.9
30°	5404.7	5422.7	5512.5	5634.8	5699.5
32.5°	5124.3	5121.9	5180.6	5287.2	5329.2
35°	4771.9	4780.3	4821.1	4866.6	4878.6
37.5°	4358.5	4369.3	4396.8	4412.4	4423.2
40°	3946.3	3946.3	3942.7	3925.9	3912.7
42.5°	3476.5	3460.9	3442.9	3368.6	3336.3
45°	2945.6	2940.8	2861.7	2774.2	2735.9
47.5°	2387.2	2360.8	2278.1	2207.4	2191.8
50°	1839.5	1811.9	1768.8	1734.1	1711.3
52.5°	1311.0	1290.7	1308.6	1308.6	1306.2
55°	844.9	862.8	898.8	931.1	962.3
57.5°	535.7	559.6	614.8	656.7	667.5
60°	306.8	324.8	363.1	400.3	407.4
62.5°	192.9	194.1	219.3	240.9	254.1
65°	100.7	98.3	106.7	117.4	125.8
67.5°	41.9	41.9	50.3	49.1	62.3
70°	21.6	18.0	20.4	24.0	27.6
72.5°	15.6	12.0	16.8	21.6	9.6
75°	7.2	10.8	13.2	9.6	12.0
77.5°	9.6	9.6	7.2	12.0	2.4
80°	7.2	4.8	8.4	3.6	0.0
82.5°	1.2	2.4	1.2	1.2	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.6	6.0	4.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)