

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: P247433

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120827 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12897.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

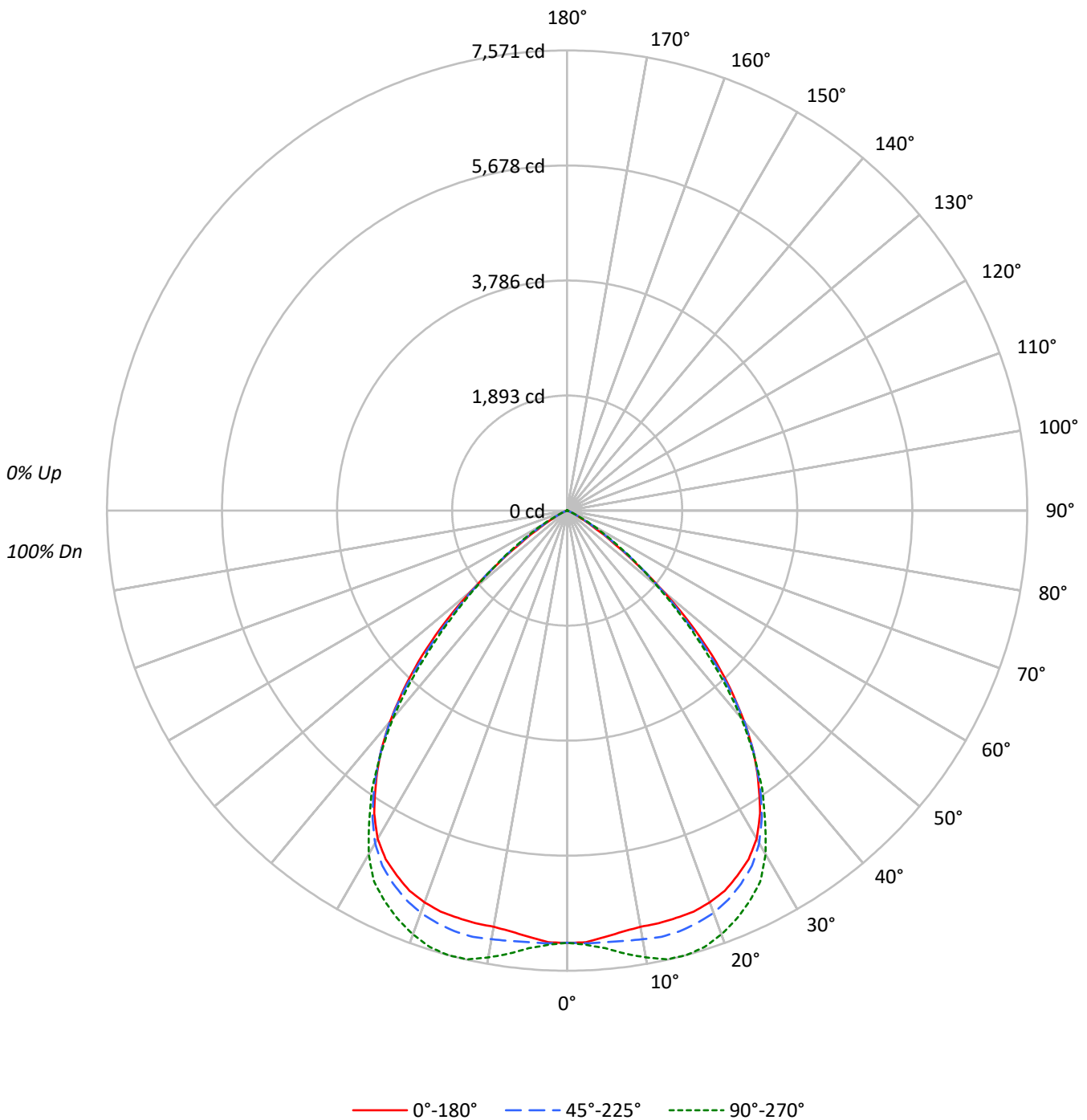
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	219265	219265	219265
5°	218050	220659	223739
10°	217672	224203	233725
15°	221483	228720	241691
20°	225084	231115	243450
25°	225474	230459	241367
30°	222036	224938	232419
35°	206648	207999	210600
40°	182640	182419	179138
45°	147120	141634	136148
50°	98786	96200	92952
55°	50154	54460	57804
60°	20543	25144	29319
65°	7661	8165	9580
70°	496	496	370
75°	989	1644	2145
80°	249	0	0
85°	991	0	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.8	5.3
10°-20°	2034.9	15.8
20°-30°	3131.3	24.3
30°-40°	3429.6	26.6
40°-50°	2493.7	19.3
50°-60°	959.3	7.4
60°-70°	150.2	1.2
70°-80°	10.8	0.1
80°-90°	4.4	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°	5849.0	45.4
0°-40°	9278.6	71.9
0°-60°	12731.6	98.7
0°-90°	12897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7111	7111	7111	7111	7111	
5°	7044	7080	7129	7196	7228	669
15°	6938	6992	7164	7430	7571	1963
25°	6627	6667	6773	6974	7094	3048
35°	5490	5490	5525	5560	5594	3409
45°	3374	3339	3248	3165	3122	2565
55°	933	958	1013	1046	1075	911
65°	105	109	112	127	131	129
75°	8	18	14	18	18	11
85°	3	0	0	0	3	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7110.6	7110.6	7110.6	7110.6	7110.6
2.5°	7109.2	7120.3	7127.2	7142.4	7149.3
5°	7044.3	7080.2	7128.6	7196.3	7228.1
7.5°	6987.6	7037.3	7141.0	7287.5	7352.5
10°	6951.7	7005.6	7160.3	7359.4	7464.4
12.5°	6955.8	7015.2	7182.5	7421.6	7562.5
15°	6937.8	6991.7	7164.5	7429.8	7570.8
17.5°	6917.1	6961.3	7114.7	7374.6	7526.6
20°	6859.1	6896.4	7042.9	7277.8	7418.8
22.5°	6772.0	6806.5	6928.2	7146.5	7276.4
25°	6626.9	6667.0	6773.4	6973.8	7094.0
27.5°	6465.2	6488.7	6586.8	6769.2	6883.9
30°	6235.8	6244.1	6317.3	6458.3	6527.4
32.5°	5908.2	5906.8	5962.1	6032.6	6058.9
35°	5489.5	5489.5	5525.4	5559.9	5594.5
37.5°	5054.1	5048.6	5052.7	5061.0	5032.0
40°	4537.2	4526.2	4531.7	4482.0	4450.2
42.5°	3970.6	3980.3	3925.0	3836.5	3803.4
45°	3373.6	3339.0	3247.8	3164.9	3122.0
47.5°	2739.2	2685.3	2598.2	2512.5	2505.6
50°	2059.2	2062.0	2005.3	1957.0	1937.6
52.5°	1429.0	1444.2	1473.3	1478.8	1485.7
55°	932.9	957.8	1013.0	1046.2	1075.2
57.5°	570.8	616.4	663.4	725.6	731.1
60°	333.1	355.2	407.7	454.7	475.4
62.5°	188.0	208.7	219.7	247.4	254.3
65°	105.0	109.2	111.9	127.1	131.3
67.5°	63.6	66.3	69.1	67.7	70.5
70°	5.5	12.4	5.5	6.9	4.1
72.5°	23.5	15.2	16.6	12.4	8.3
75°	8.3	18.0	13.8	18.0	18.0
77.5°	5.5	4.1	6.9	8.3	6.9
80°	1.4	0.0	0.0	0.0	0.0
82.5°	12.4	11.1	6.9	11.1	4.1
85°	2.8	0.0	0.0	0.0	2.8
87.5°	8.3	4.1	4.1	9.7	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)