

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: P247441

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247441  
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 EC8B120835 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13747.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

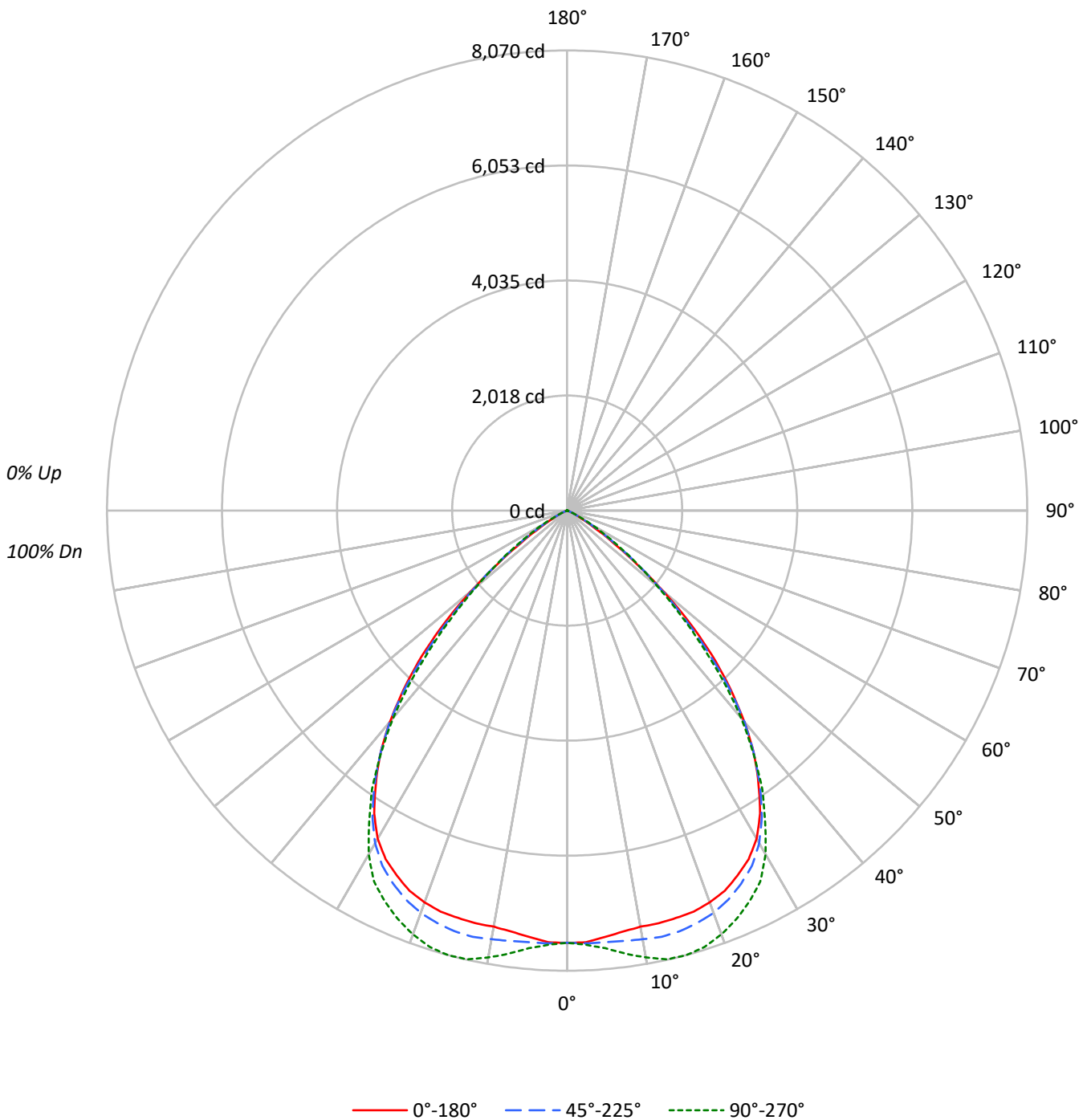
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	233715	233715	233715
5°	232419	235202	238483
10°	232016	238983	249131
15°	236082	243795	257621
20°	239916	246345	259494
25°	240333	245647	257277
30°	236667	239765	247737
35°	220267	221709	224480
40°	194680	194443	190945
45°	156814	150966	145122
50°	105300	102542	99078
55°	53460	58052	61616
60°	21894	26803	31256
65°	8172	8705	10208
70°	532	532	397
75°	1048	1751	2288
80°	266	0	0
85°	1026	0	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.8	5.3
10°-20°	2169.0	15.8
20°-30°	3337.7	24.3
30°-40°	3655.7	26.6
40°-50°	2658.0	19.3
50°-60°	1022.5	7.4
60°-70°	160.2	1.2
70°-80°	11.5	0.1
80°-90°	4.6	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°	6234.5	45.4
0°-40°	9890.1	71.9
0°-60°	13570.7	98.7
0°-90°	13747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7579	7579	7579	7579	7579	
5°	7508	7547	7598	7671	7704	714
15°	7395	7452	7637	7920	8070	2092
25°	7064	7106	7220	7433	7562	3249
35°	5851	5851	5890	5926	5963	3634
45°	3596	3559	3462	3374	3328	2734
55°	994	1021	1080	1115	1146	971
65°	112	116	119	136	140	137
75°	9	19	15	19	19	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°	7579.2	7579.2	7579.2	7579.2	7579.2
2.5°	7577.8	7589.5	7596.9	7613.1	7620.5
5°	7508.5	7546.8	7598.4	7670.6	7704.4
7.5°	7448.1	7501.2	7611.6	7767.8	7837.0
10°	7409.8	7467.3	7632.3	7844.4	7956.4
12.5°	7414.2	7477.6	7655.8	7910.7	8060.9
15°	7395.1	7452.5	7636.7	7919.5	8069.8
17.5°	7373.0	7420.1	7583.7	7860.6	8022.6
20°	7311.1	7350.9	7507.0	7757.5	7907.7
22.5°	7218.3	7255.1	7384.8	7617.5	7756.0
25°	7063.6	7106.4	7219.8	7433.4	7561.6
27.5°	6891.3	6916.3	7020.9	7215.4	7337.6
30°	6646.7	6655.6	6733.7	6883.9	6957.6
32.5°	6297.6	6296.1	6355.1	6430.2	6458.2
35°	5851.3	5851.3	5889.6	5926.4	5963.2
37.5°	5387.2	5381.3	5385.7	5394.6	5363.7
40°	4836.3	4824.5	4830.4	4777.3	4743.5
42.5°	4232.3	4242.6	4183.7	4089.4	4054.0
45°	3595.9	3559.1	3461.8	3373.5	3327.8
47.5°	2919.7	2862.3	2769.5	2678.1	2670.8
50°	2195.0	2197.9	2137.5	2085.9	2065.3
52.5°	1523.2	1539.4	1570.4	1576.2	1583.6
55°	994.4	1020.9	1079.8	1115.2	1146.1
57.5°	608.4	657.0	707.1	773.4	779.3
60°	355.0	378.6	434.6	484.7	506.8
62.5°	200.3	222.4	234.2	263.7	271.1
65°	112.0	116.4	119.3	135.5	139.9
67.5°	67.8	70.7	73.7	72.2	75.1
70°	5.9	13.3	5.9	7.4	4.4
72.5°	25.0	16.2	17.7	13.3	8.8
75°	8.8	19.2	14.7	19.2	19.2
77.5°	5.9	4.4	7.4	8.8	7.4
80°	1.5	0.0	0.0	0.0	0.0
82.5°	13.3	11.8	7.4	11.8	4.4
85°	2.9	0.0	0.0	0.0	2.9
87.5°	8.8	4.4	4.4	10.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)