

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: P247525

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120930 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9234.8 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

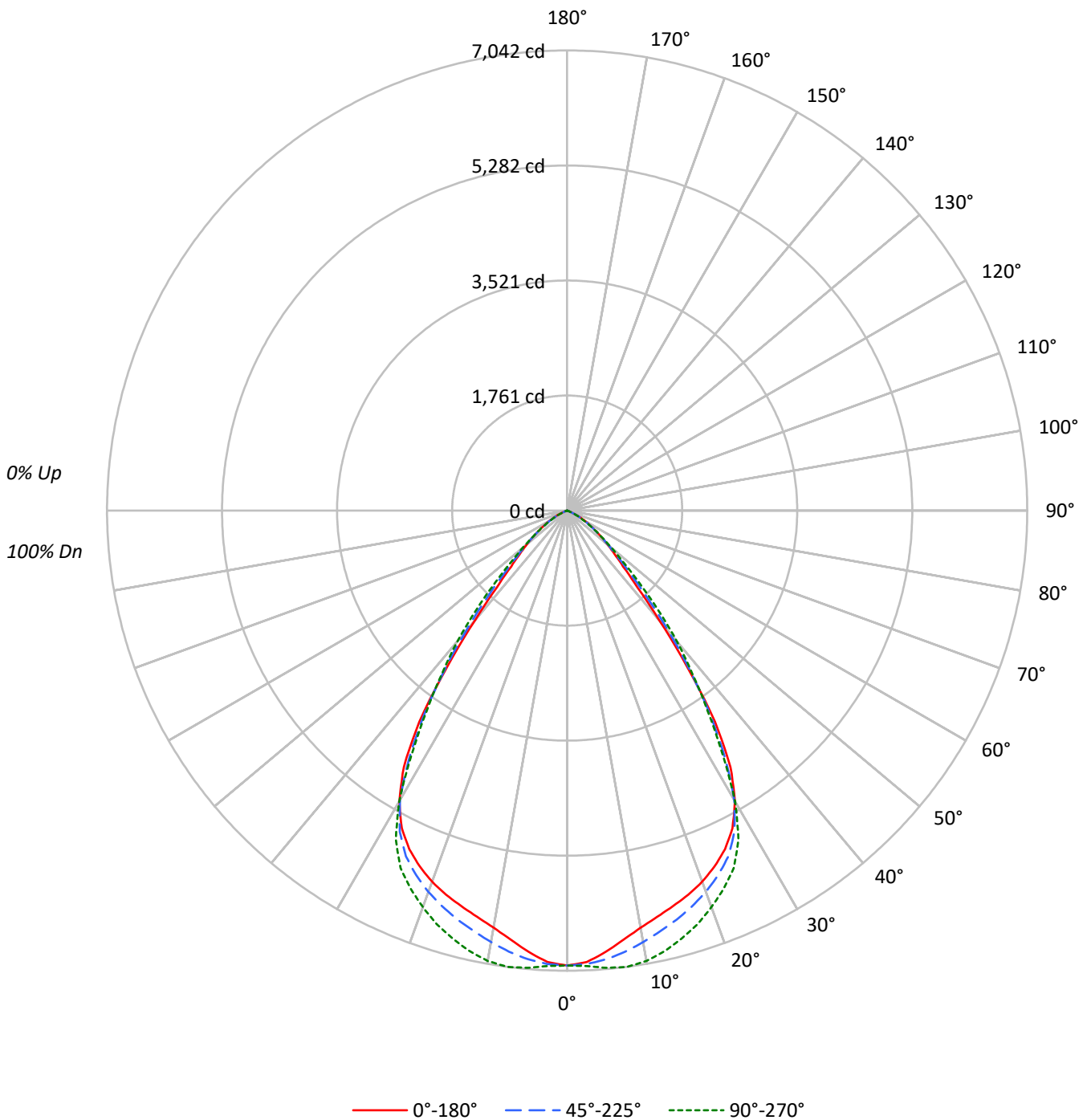
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42	42			

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.7	7.1
10°-20°	1833.1	19.8
20°-30°	2664.2	28.8
30°-40°	2356.1	25.5
40°-50°	1120.8	12.1
50°-60°	466.9	5.1
60°-70°	130.4	1.4
70°-80°	9.9	0.1
80°-90°	0.7	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°	5150.1	55.8
0°-40°	7506.1	81.3
0°-60°	9093.8	98.5
0°-90°	9234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9234.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6962	6962	6962	6962	6962	
5°	6778	6812	6893	6984	7024	637
15°	6265	6322	6479	6676	6779	1769
25°	5716	5742	5838	5967	6034	2612
35°	3946	3890	3814	3755	3755	2362
45°	1210	1253	1362	1489	1547	1008
55°	518	512	500	500	511	471
65°	130	128	120	116	114	142
75°	8	7	6	6	6	11
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6961.9	6961.9	6961.9	6961.9	6961.9
2.5°	6915.7	6921.7	6944.8	6966.7	6976.4
5°	6778.1	6812.2	6892.6	6983.7	7024.0
7.5°	6621.3	6672.3	6807.4	6967.9	7042.1
10°	6478.9	6543.4	6705.1	6903.5	6997.2
12.5°	6367.1	6426.6	6592.0	6798.9	6904.7
15°	6264.8	6322.0	6478.9	6676.0	6779.4
17.5°	6162.7	6217.4	6352.4	6536.1	6635.9
20°	6043.4	6087.3	6208.9	6370.6	6458.2
22.5°	5895.0	5935.1	6037.4	6180.9	6260.0
25°	5716.2	5741.8	5837.8	5966.7	6033.7
27.5°	5479.0	5485.1	5543.5	5627.4	5677.3
30°	5134.7	5131.0	5115.2	5111.6	5139.6
32.5°	4653.0	4599.5	4507.0	4463.3	4429.2
35°	3946.3	3890.3	3813.6	3755.2	3755.2
37.5°	3016.8	3065.5	3095.9	3132.4	3150.7
40°	2190.9	2262.6	2414.7	2572.8	2615.4
42.5°	1592.4	1659.3	1823.5	1999.9	2051.0
45°	1210.3	1252.9	1362.5	1488.9	1547.3
47.5°	978.1	990.2	1045.0	1120.3	1148.4
50°	801.6	805.3	822.4	861.3	883.1
52.5°	648.4	645.9	650.9	661.7	671.5
55°	518.2	512.2	500.0	500.0	511.0
57.5°	400.2	391.7	378.3	372.3	368.6
60°	306.6	298.1	283.4	273.7	272.5
62.5°	220.2	212.9	198.3	189.8	187.3
65°	130.1	127.7	120.4	115.6	114.3
67.5°	60.9	58.4	52.4	49.9	48.7
70°	29.1	28.0	25.6	24.3	23.1
72.5°	14.6	14.6	12.2	12.2	12.2
75°	8.5	7.3	6.1	6.1	6.1
77.5°	4.8	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)