

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: P247189

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9153.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

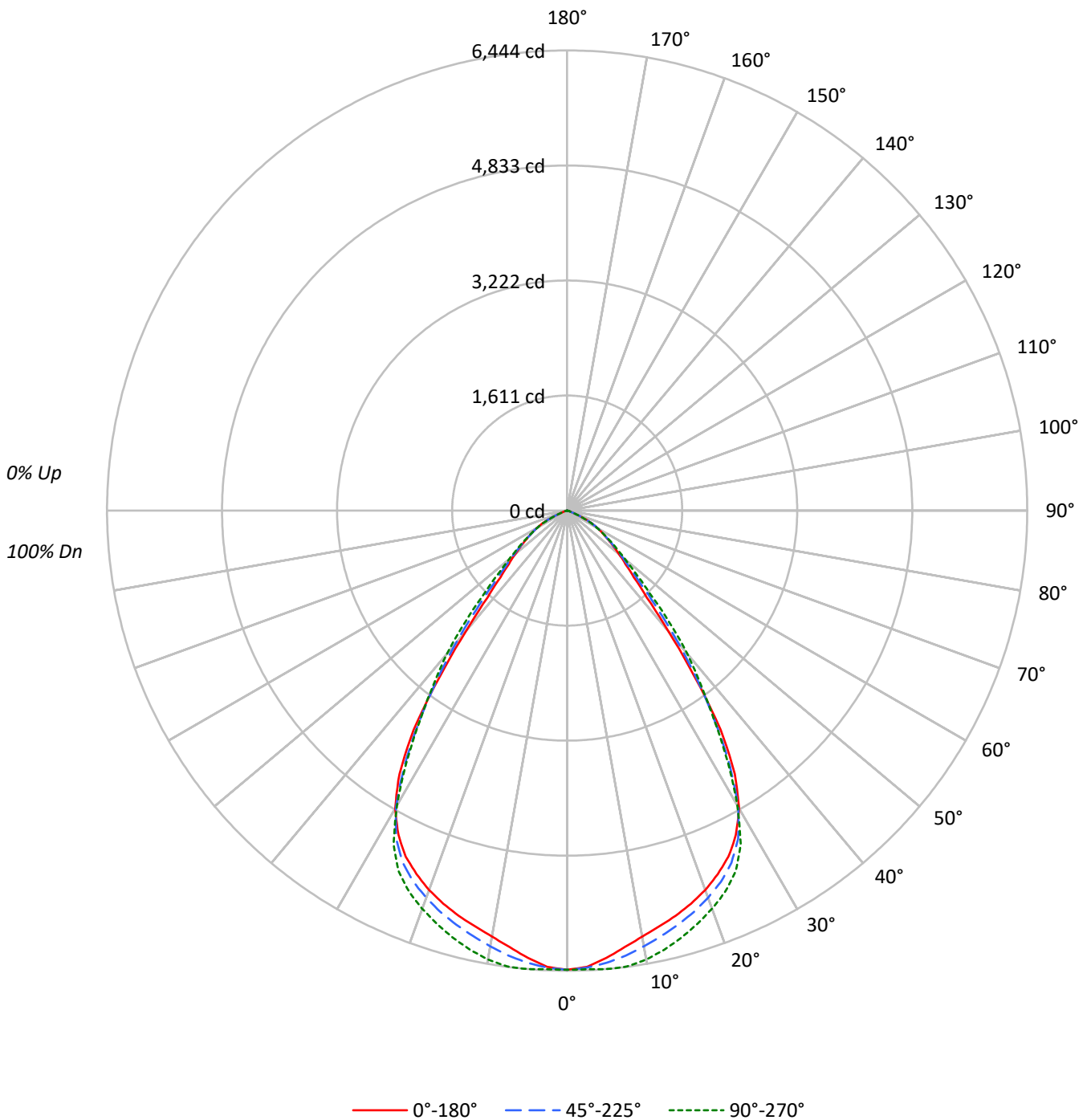
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74	74	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67	67	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56	56	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40

**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°	602.4	6.6
10°-20°	1697.2	18.5
20°-30°	2482.1	27.1
30°-40°	2249.1	24.6
40°-50°	1195.9	13.1
50°-60°	638.3	7.0
60°-70°	260.3	2.8
70°-80°	26.3	0.3
80°-90°	1.5	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°	4781.6	52.2
0°-40°	7030.7	76.8
0°-60°	8864.9	96.9
0°-90°	9153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9153.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6430	6430	6430	6430	6430	
5°	6288	6304	6357	6414	6444	593
15°	5874	5907	6003	6126	6190	1657
25°	5346	5369	5443	5536	5580	2443
35°	3748	3695	3618	3591	3598	2252
45°	1322	1361	1474	1591	1633	1081
55°	689	688	701	711	723	625
65°	269	268	262	246	247	268
75°	20	20	18	17	17	28
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6430.4	6430.4	6430.4	6430.4	6430.4
2.5°	6395.7	6394.6	6406.5	6420.6	6428.2
5°	6288.2	6304.5	6356.6	6414.1	6444.5
7.5°	6166.7	6197.1	6287.1	6385.9	6439.1
10°	6057.1	6096.1	6194.9	6324.0	6382.6
12.5°	5962.6	6000.6	6100.5	6232.9	6296.9
15°	5873.6	5907.3	6002.8	6126.5	6189.5
17.5°	5770.5	5803.1	5895.3	6012.6	6066.8
20°	5654.4	5681.5	5768.4	5878.0	5933.3
22.5°	5510.1	5539.4	5627.3	5728.2	5780.3
25°	5346.2	5369.0	5442.8	5536.1	5579.5
27.5°	5118.3	5138.9	5182.3	5232.2	5264.8
30°	4816.6	4811.1	4794.9	4779.7	4765.5
32.5°	4371.6	4319.5	4240.3	4190.3	4192.5
35°	3747.5	3695.4	3618.4	3591.3	3597.8
37.5°	2928.1	2967.2	2998.7	3050.8	3075.7
40°	2194.5	2261.8	2421.3	2560.2	2617.7
42.5°	1649.7	1715.9	1883.0	2029.5	2108.7
45°	1321.9	1361.0	1473.8	1591.0	1633.4
47.5°	1107.0	1124.4	1189.5	1264.4	1301.3
50°	947.5	958.3	993.0	1034.3	1058.2
52.5°	811.8	816.1	833.5	857.4	872.6
55°	689.2	688.1	701.1	710.9	722.8
57.5°	582.8	581.7	581.7	585.0	592.6
60°	491.6	488.4	488.4	484.0	486.2
62.5°	400.5	397.2	389.6	384.2	382.0
65°	269.2	268.1	261.6	246.4	247.4
67.5°	140.0	138.9	132.4	128.1	125.9
70°	74.9	72.7	69.5	66.2	64.0
72.5°	38.0	36.9	35.8	33.6	33.6
75°	19.5	19.5	18.5	17.4	17.4
77.5°	9.8	9.8	8.7	8.7	8.7
80°	5.4	5.4	4.3	4.3	4.3
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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)