

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 EC8B120930 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 EC8B120930 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: 10260.5 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

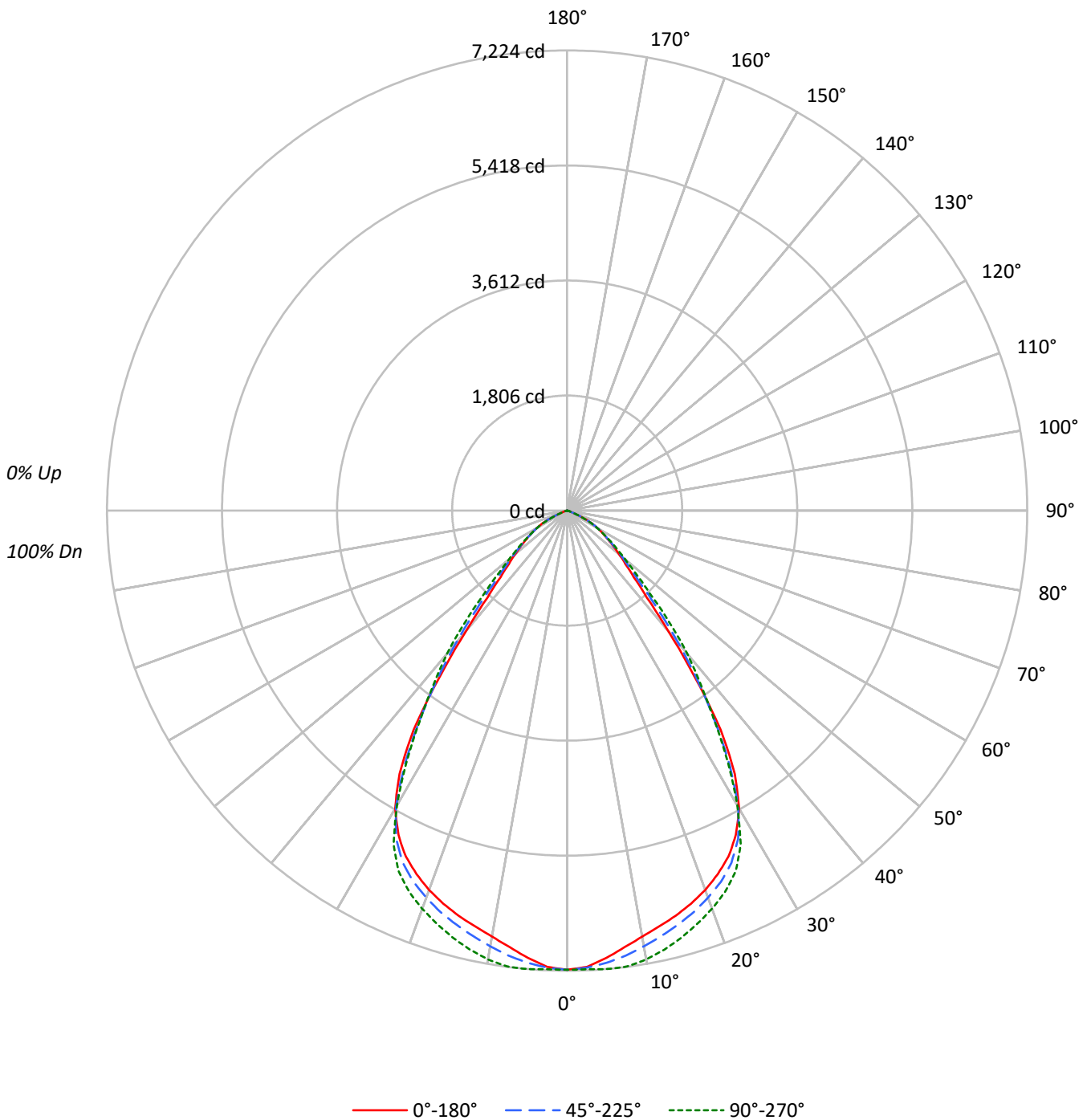
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74	74	74	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67	67	67	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61	61	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56	56	56	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	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°	675.2	6.6
10°-20°	1902.5	18.5
20°-30°	2782.5	27.1
30°-40°	2521.2	24.6
40°-50°	1340.6	13.1
50°-60°	715.5	7.0
60°-70°	291.8	2.8
70°-80°	29.5	0.3
80°-90°	1.7	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°	5360.2	52.2
0°-40°	7881.5	76.8
0°-60°	9937.5	96.9
0°-90°	10260.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10260.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7208	7208	7208	7208	7208	
5°	7049	7067	7126	7190	7224	665
15°	6584	6622	6729	6868	6938	1857
25°	5993	6019	6101	6206	6255	2739
35°	4201	4142	4056	4026	4033	2525
45°	1482	1526	1652	1784	1831	1212
55°	773	771	786	797	810	700
65°	302	300	293	276	277	301
75°	22	22	21	20	20	32
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°	7208.5	7208.5	7208.5	7208.5	7208.5
2.5°	7169.6	7168.3	7181.7	7197.5	7206.0
5°	7049.1	7067.3	7125.7	7190.2	7224.3
7.5°	6912.9	6946.9	7047.8	7158.6	7218.2
10°	6790.0	6833.7	6944.5	7089.2	7154.9
12.5°	6684.1	6726.7	6838.7	6987.1	7058.8
15°	6584.3	6622.1	6729.1	6867.8	6938.4
17.5°	6468.7	6505.3	6608.6	6740.1	6800.9
20°	6338.6	6369.0	6466.4	6589.2	6651.2
22.5°	6176.8	6209.7	6308.2	6421.3	6479.7
25°	5993.1	6018.6	6101.4	6206.0	6254.6
27.5°	5737.6	5760.7	5809.4	5865.3	5901.8
30°	5399.4	5393.2	5375.1	5358.0	5342.1
32.5°	4900.6	4842.2	4753.4	4697.3	4699.8
35°	4200.9	4142.5	4056.2	4025.8	4033.1
37.5°	3282.4	3326.2	3361.5	3419.9	3447.9
40°	2460.0	2535.5	2714.3	2870.0	2934.4
42.5°	1849.3	1923.5	2110.8	2275.1	2363.9
45°	1481.8	1525.7	1652.1	1783.5	1831.0
47.5°	1240.9	1260.5	1333.4	1417.4	1458.8
50°	1062.1	1074.3	1113.2	1159.5	1186.2
52.5°	910.0	914.8	934.4	961.1	978.2
55°	772.6	771.4	785.9	796.9	810.3
57.5°	653.3	652.1	652.1	655.8	664.3
60°	551.1	547.5	547.5	542.6	545.0
62.5°	449.0	445.3	436.7	430.7	428.2
65°	301.8	300.5	293.3	276.2	277.3
67.5°	156.9	155.7	148.4	143.6	141.1
70°	84.0	81.5	77.9	74.2	71.7
72.5°	42.6	41.4	40.1	37.7	37.7
75°	21.9	21.9	20.7	19.5	19.5
77.5°	11.0	11.0	9.8	9.8	9.8
80°	6.1	6.1	4.8	4.8	4.8
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2
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)