

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: P247713

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209727 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8879.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

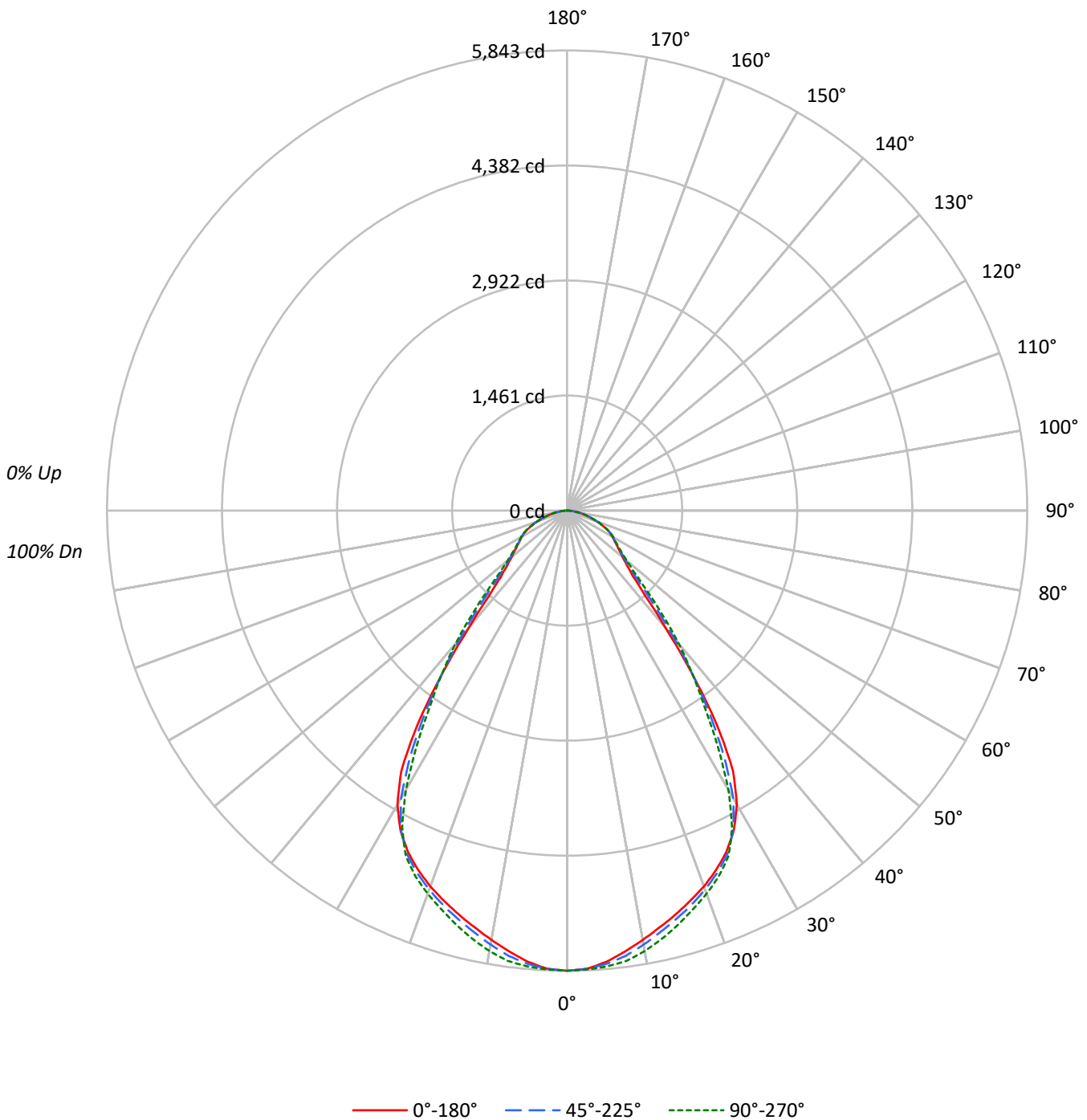
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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						
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89						
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78						
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70						
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63						
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57						
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43						
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40						
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37						

**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°	546.0	6.1
10°-20°	1514.8	17.1
20°-30°	2189.9	24.7
30°-40°	1959.9	22.1
40°-50°	1060.6	11.9
50°-60°	706.9	8.0
60°-70°	541.4	6.1
70°-80°	286.9	3.2
80°-90°	72.6	0.8
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°	4250.8	47.9
0°-40°	6210.6	69.9
0°-60°	7978.1	89.9
0°-90°	8879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5843	5843	5843	5843	5843	
5°	5750	5753	5777	5800	5810	542
15°	5311	5321	5367	5419	5444	1498
25°	4782	4794	4812	4835	4844	2188
35°	3308	3274	3160	3068	3038	2003
45°	1190	1225	1302	1383	1412	979
55°	769	772	780	788	791	696
65°	548	550	554	558	558	537
75°	266	266	269	270	270	285
85°	62	62	62	63	62	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5843.0	5843.0	5843.0	5843.0	5843.0
2.5°	5823.5	5821.5	5822.5	5828.6	5831.7
5°	5749.7	5752.7	5777.4	5799.9	5810.2
7.5°	5646.1	5659.4	5701.4	5745.6	5768.1
10°	5535.3	5548.6	5596.8	5659.4	5678.9
12.5°	5421.4	5437.8	5480.9	5544.5	5568.1
15°	5310.6	5320.9	5367.0	5419.3	5444.0
17.5°	5196.7	5207.0	5249.1	5290.1	5309.6
20°	5077.8	5089.0	5120.8	5155.7	5177.3
22.5°	4941.3	4952.6	4979.3	5010.0	5029.5
25°	4782.3	4793.6	4812.1	4834.6	4843.9
27.5°	4581.3	4588.4	4571.0	4552.5	4536.1
30°	4308.4	4285.8	4216.1	4126.8	4092.0
32.5°	3920.6	3847.8	3713.4	3604.7	3564.7
35°	3308.2	3274.4	3159.5	3068.2	3038.4
37.5°	2594.3	2616.8	2608.6	2602.5	2608.6
40°	1934.7	1987.0	2099.8	2176.8	2201.4
42.5°	1464.9	1515.1	1642.3	1749.0	1785.9
45°	1189.9	1224.8	1301.8	1382.8	1412.5
47.5°	1026.8	1046.3	1085.3	1128.4	1142.8
50°	922.2	930.4	949.9	974.5	982.7
52.5°	839.1	843.2	854.5	867.8	869.9
55°	769.4	772.4	779.6	787.8	790.9
57.5°	710.9	714.0	716.0	721.1	723.2
60°	664.7	664.7	668.8	672.9	675.0
62.5°	614.5	614.5	618.6	622.7	622.7
65°	547.8	549.8	553.9	558.0	558.0
67.5°	474.9	476.0	479.1	483.2	482.1
70°	402.1	402.1	405.2	407.2	408.3
72.5°	332.4	331.3	336.5	337.5	334.4
75°	265.7	265.7	268.8	269.8	269.8
77.5°	207.2	206.2	206.2	207.2	208.2
80°	151.8	152.8	151.8	153.9	155.9
82.5°	105.7	104.6	104.6	104.6	103.6
85°	61.5	61.5	61.5	62.6	61.5
87.5°	24.6	24.6	23.6	23.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)