

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: P247717

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247717  
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 EC8B1209730 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9393.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

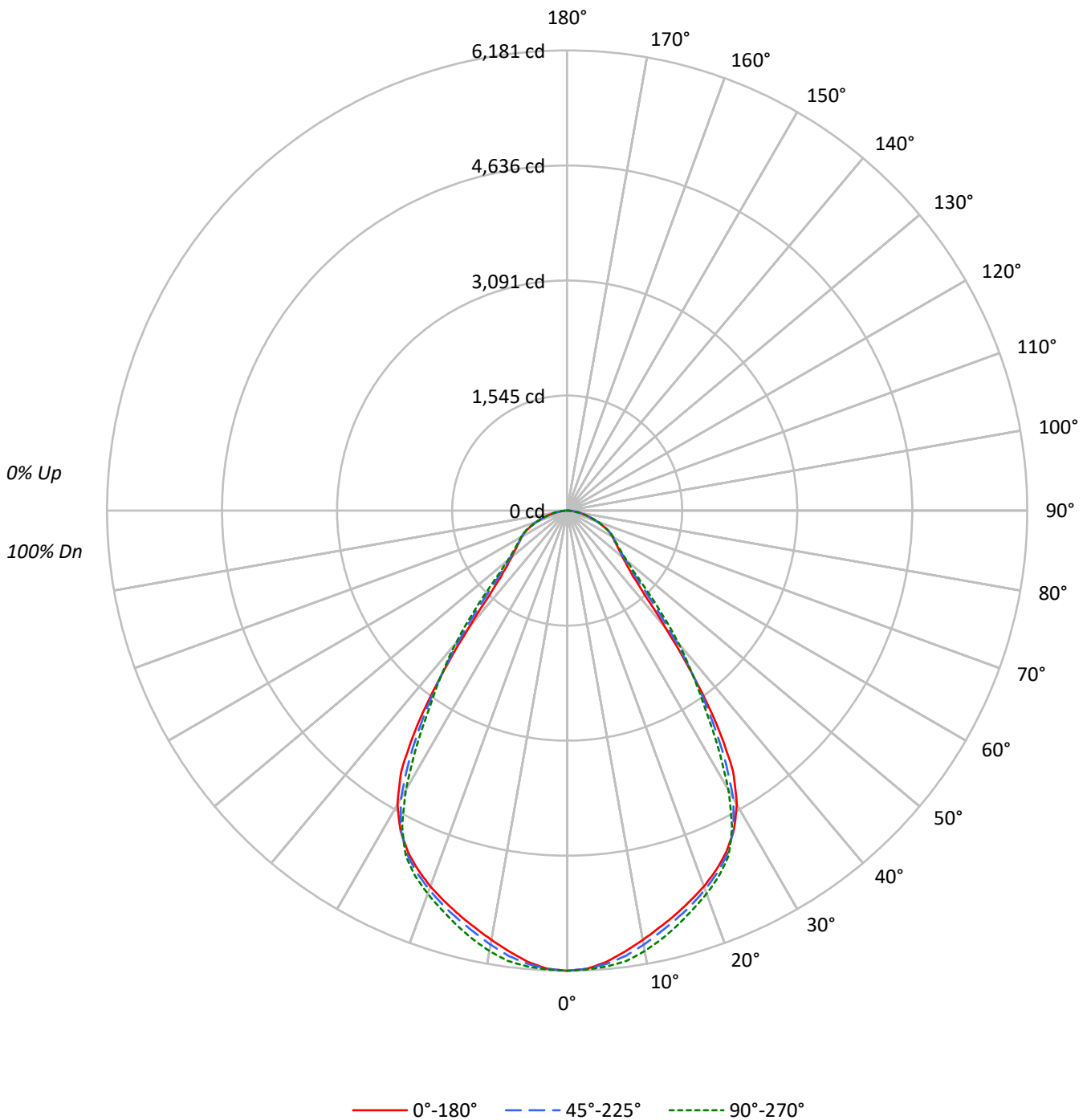
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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		
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°	577.6	6.1
10°-20°	1602.5	17.1
20°-30°	2316.7	24.7
30°-40°	2073.3	22.1
40°-50°	1122.0	11.9
50°-60°	747.8	8.0
60°-70°	572.7	6.1
70°-80°	303.5	3.2
80°-90°	76.8	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°	4496.8	47.9
0°-40°	6570.1	69.9
0°-60°	8440.0	89.9
0°-90°	9393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6181	6181	6181	6181	6181	
5°	6082	6086	6112	6136	6146	573
15°	5618	5629	5678	5733	5759	1585
25°	5059	5071	5091	5114	5124	2315
35°	3500	3464	3342	3246	3214	2118
45°	1259	1296	1377	1463	1494	1036
55°	814	817	825	833	837	736
65°	580	582	586	590	590	568
75°	281	281	284	285	285	302
85°	65	65	65	66	65	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6181.3	6181.3	6181.3	6181.3	6181.3
2.5°	6160.6	6158.5	6159.5	6166.1	6169.3
5°	6082.5	6085.8	6111.8	6135.7	6146.5
7.5°	5972.9	5987.0	6031.5	6078.2	6102.0
10°	5855.7	5869.8	5920.8	5987.0	6007.6
12.5°	5735.2	5752.6	5798.2	5865.5	5890.4
15°	5618.0	5628.9	5677.7	5733.1	5759.1
17.5°	5497.6	5508.4	5552.9	5596.3	5617.0
20°	5371.7	5383.6	5417.3	5454.2	5477.0
22.5°	5227.4	5239.3	5267.5	5300.1	5320.7
25°	5059.2	5071.1	5090.6	5114.5	5124.3
27.5°	4846.5	4854.1	4835.6	4816.1	4798.7
30°	4557.8	4533.9	4460.1	4365.7	4328.8
32.5°	4147.6	4070.6	3928.4	3813.4	3771.0
35°	3499.7	3463.9	3342.4	3245.8	3214.3
37.5°	2744.5	2768.3	2759.6	2753.1	2759.6
40°	2046.7	2102.0	2221.4	2302.8	2328.8
42.5°	1549.7	1602.8	1737.4	1850.3	1889.3
45°	1258.8	1295.7	1377.1	1462.8	1494.3
47.5°	1086.3	1106.9	1148.1	1193.7	1208.9
50°	975.6	984.3	1004.9	1030.9	1039.6
52.5°	887.7	892.0	904.0	918.1	920.2
55°	813.9	817.1	824.7	833.4	836.7
57.5°	752.0	755.3	757.5	762.9	765.1
60°	703.2	703.2	707.5	711.9	714.1
62.5°	650.0	650.0	654.4	658.7	658.7
65°	579.5	581.7	586.0	590.3	590.3
67.5°	502.4	503.5	506.8	511.1	510.0
70°	425.4	425.4	428.7	430.8	431.9
72.5°	351.6	350.5	355.9	357.0	353.8
75°	281.1	281.1	284.3	285.4	285.4
77.5°	219.2	218.1	218.1	219.2	220.3
80°	160.6	161.7	160.6	162.8	164.9
82.5°	111.8	110.7	110.7	110.7	109.6
85°	65.1	65.1	65.1	66.2	65.1
87.5°	26.0	26.0	25.0	25.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)