

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: P247581

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120830 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7834.0 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

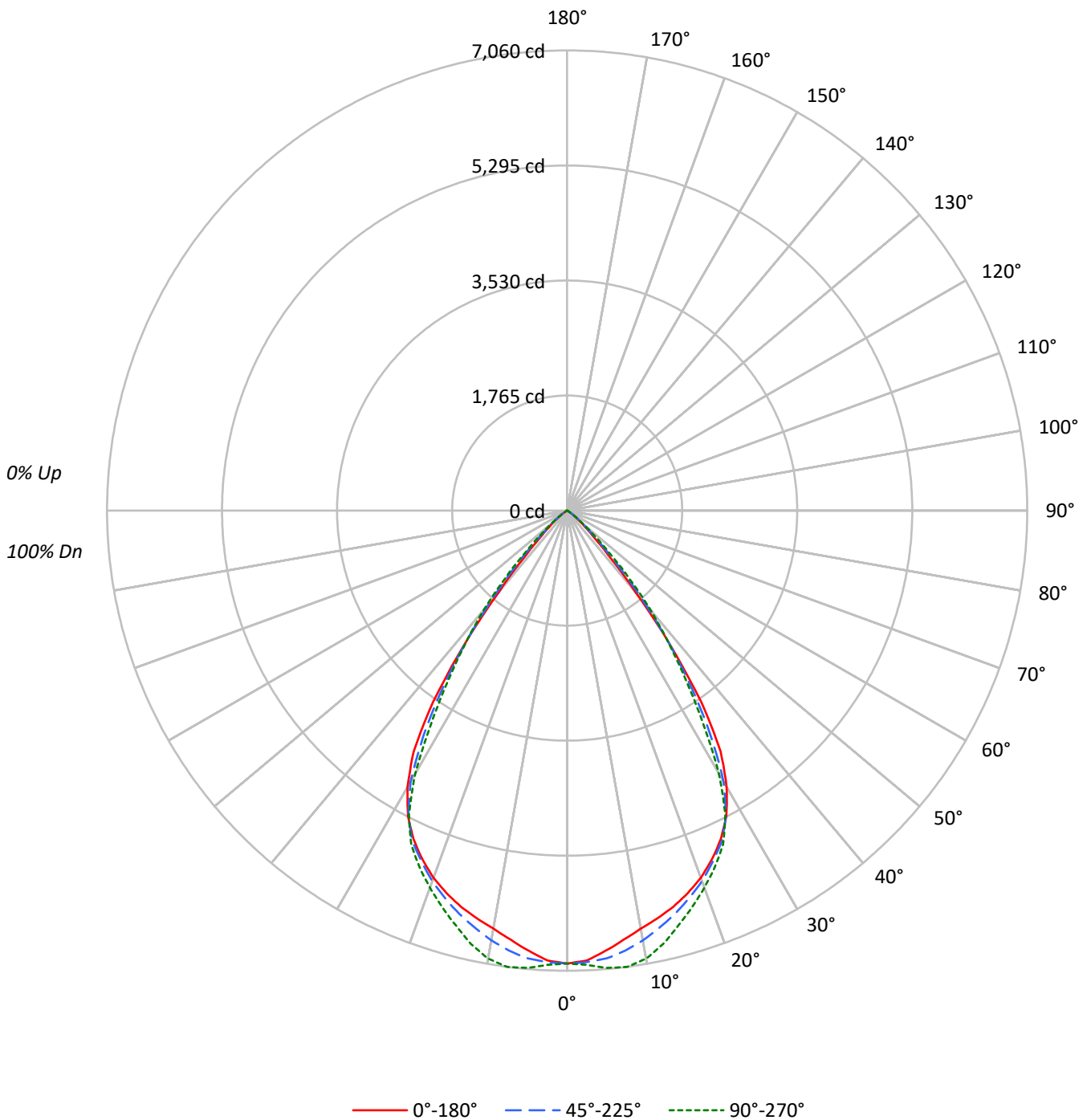
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

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

	0°	45°	90°
0°	214269	214269	214269
5°	209869	213552	218025
10°	203957	209634	218552
15°	200844	204416	210431
20°	196734	198549	201988
25°	189473	190824	192508
30°	174327	170948	165902
35°	135079	125856	119562
40°	65634	74474	79779
45°	25389	32681	39601
50°	11892	13591	15562
55°	4951	5333	5484
60°	1659	1573	1486
65°	204	306	306
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.2	8.3
10°-20°	1807.5	23.1
20°-30°	2546.9	32.5
30°-40°	2060.6	26.3
40°-50°	654.1	8.3
50°-60°	104.6	1.3
60°-70°	7.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	5007.6	63.9
0°-40°	7068.2	90.2
0°-60°	7826.9	99.9
0°-90°	7834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6949	6949	6949	6949	6949	
5°	6780	6811	6899	7000	7044	639
15°	6291	6315	6403	6525	6592	1772
25°	5569	5579	5608	5640	5658	2543
35°	3588	3491	3343	3223	3176	2128
45°	582	629	749	856	908	543
55°	92	94	99	103	102	96
65°	3	4	4	4	4	7
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6948.6	6948.6	6948.6	6948.6	6948.6
2.5°	6908.9	6916.0	6933.0	6965.6	6975.5
5°	6780.0	6811.2	6899.0	6999.6	7043.5
7.5°	6641.2	6682.3	6811.2	6981.2	7060.5
10°	6513.7	6557.6	6695.0	6876.4	6979.8
12.5°	6406.0	6440.0	6551.9	6714.9	6811.2
15°	6291.3	6315.4	6403.2	6525.0	6591.6
17.5°	6153.9	6175.1	6233.2	6328.1	6379.1
20°	5995.2	6000.9	6050.5	6111.4	6155.3
22.5°	5798.3	5804.0	5832.3	5890.4	5920.1
25°	5568.8	5578.7	5608.5	5639.6	5658.0
27.5°	5286.9	5291.1	5277.0	5251.5	5257.1
30°	4895.9	4880.3	4801.0	4691.9	4659.3
32.5°	4383.1	4279.7	4108.2	3955.3	3892.9
35°	3588.3	3490.6	3343.3	3222.8	3176.1
37.5°	2578.3	2585.4	2575.4	2548.5	2554.2
40°	1630.5	1695.7	1850.1	1950.7	1981.9
42.5°	978.9	1049.7	1219.7	1355.7	1399.6
45°	582.2	629.0	749.4	855.6	908.1
47.5°	374.0	396.7	456.2	518.5	548.2
50°	247.9	259.2	283.3	311.7	324.4
52.5°	158.7	162.9	174.2	184.2	194.1
55°	92.1	93.5	99.2	103.4	102.0
57.5°	48.2	48.2	48.2	48.2	48.2
60°	26.9	25.5	25.5	25.5	24.1
62.5°	12.7	12.7	12.7	11.3	11.3
65°	2.8	4.2	4.2	4.2	4.2
67.5°	0.0	0.0	0.0	0.0	1.4
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)