

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: P247477

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10127.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

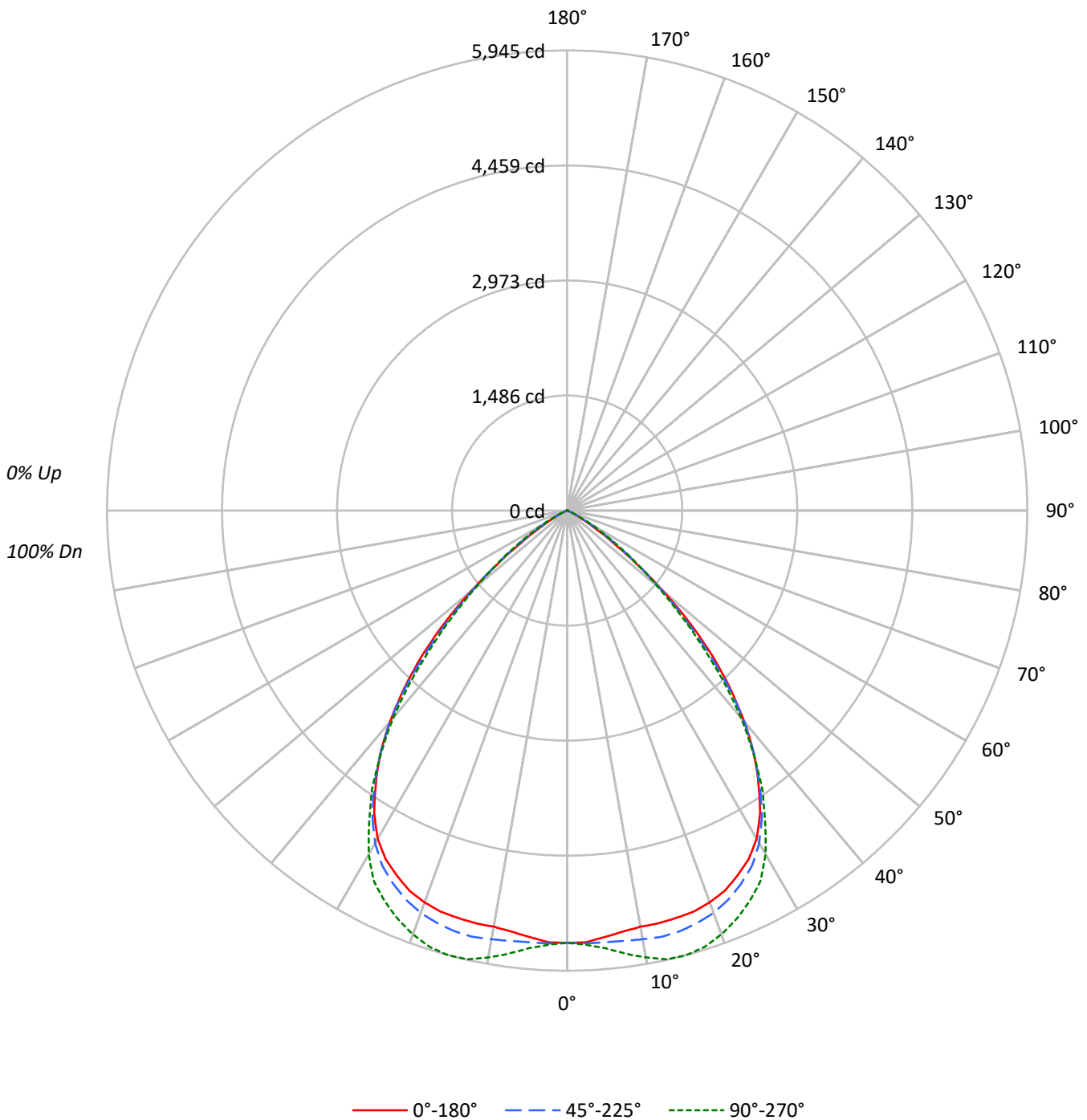
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	536.2	5.3
10°-20°	1597.8	15.8
20°-30°	2458.8	24.3
30°-40°	2693.0	26.6
40°-50°	1958.1	19.3
50°-60°	753.2	7.4
60°-70°	118.0	1.2
70°-80°	8.5	0.1
80°-90°	3.4	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°	4592.8	45.4
0°-40°	7285.8	71.9
0°-60°	9997.1	98.7
0°-90°	10127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5583	5583	5583	5583	5583	
5°	5531	5560	5598	5651	5676	526
15°	5448	5490	5626	5834	5945	1541
25°	5204	5235	5319	5476	5570	2393
35°	4310	4310	4339	4366	4393	2677
45°	2649	2622	2550	2485	2452	2014
55°	732	752	796	822	844	716
65°	82	86	88	100	103	101
75°	6	14	11	14	14	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5583.4	5583.4	5583.4	5583.4	5583.4
2.5°	5582.3	5591.0	5596.4	5608.4	5613.8
5°	5531.3	5559.5	5597.5	5650.7	5675.6
7.5°	5486.8	5525.9	5607.3	5722.3	5773.3
10°	5458.6	5500.9	5622.5	5778.7	5861.2
12.5°	5461.8	5508.5	5639.8	5827.6	5938.3
15°	5447.7	5490.1	5625.7	5834.1	5944.8
17.5°	5431.5	5466.2	5586.6	5790.7	5910.0
20°	5385.9	5415.2	5530.2	5714.7	5825.4
22.5°	5317.5	5344.6	5440.1	5611.6	5713.6
25°	5203.6	5235.0	5318.6	5476.0	5570.4
27.5°	5076.6	5095.0	5172.1	5315.3	5405.4
30°	4896.5	4903.0	4960.5	5071.2	5125.4
32.5°	4639.3	4638.2	4681.6	4736.9	4757.5
35°	4310.4	4310.4	4338.7	4365.8	4392.9
37.5°	3968.6	3964.3	3967.5	3974.0	3951.2
40°	3562.7	3554.1	3558.4	3519.3	3494.4
42.5°	3117.8	3125.4	3082.0	3012.5	2986.5
45°	2649.0	2621.9	2550.2	2485.1	2451.5
47.5°	2150.9	2108.6	2040.2	1972.9	1967.5
50°	1617.0	1619.1	1574.6	1536.7	1521.5
52.5°	1122.1	1134.0	1156.8	1161.2	1166.6
55°	732.5	752.0	795.5	821.5	844.3
57.5°	448.2	484.0	520.9	569.7	574.1
60°	261.5	278.9	320.1	357.0	373.3
62.5°	147.6	163.9	172.5	194.3	199.7
65°	82.5	85.7	87.9	99.8	103.1
67.5°	49.9	52.1	54.3	53.2	55.3
70°	4.3	9.8	4.3	5.4	3.3
72.5°	18.4	11.9	13.0	9.8	6.5
75°	6.5	14.1	10.9	14.1	14.1
77.5°	4.3	3.3	5.4	6.5	5.4
80°	1.1	0.0	0.0	0.0	0.0
82.5°	9.8	8.7	5.4	8.7	3.3
85°	2.2	0.0	0.0	0.0	2.2
87.5°	6.5	3.3	3.3	7.6	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)