

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: P247377

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120927 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10346.6 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

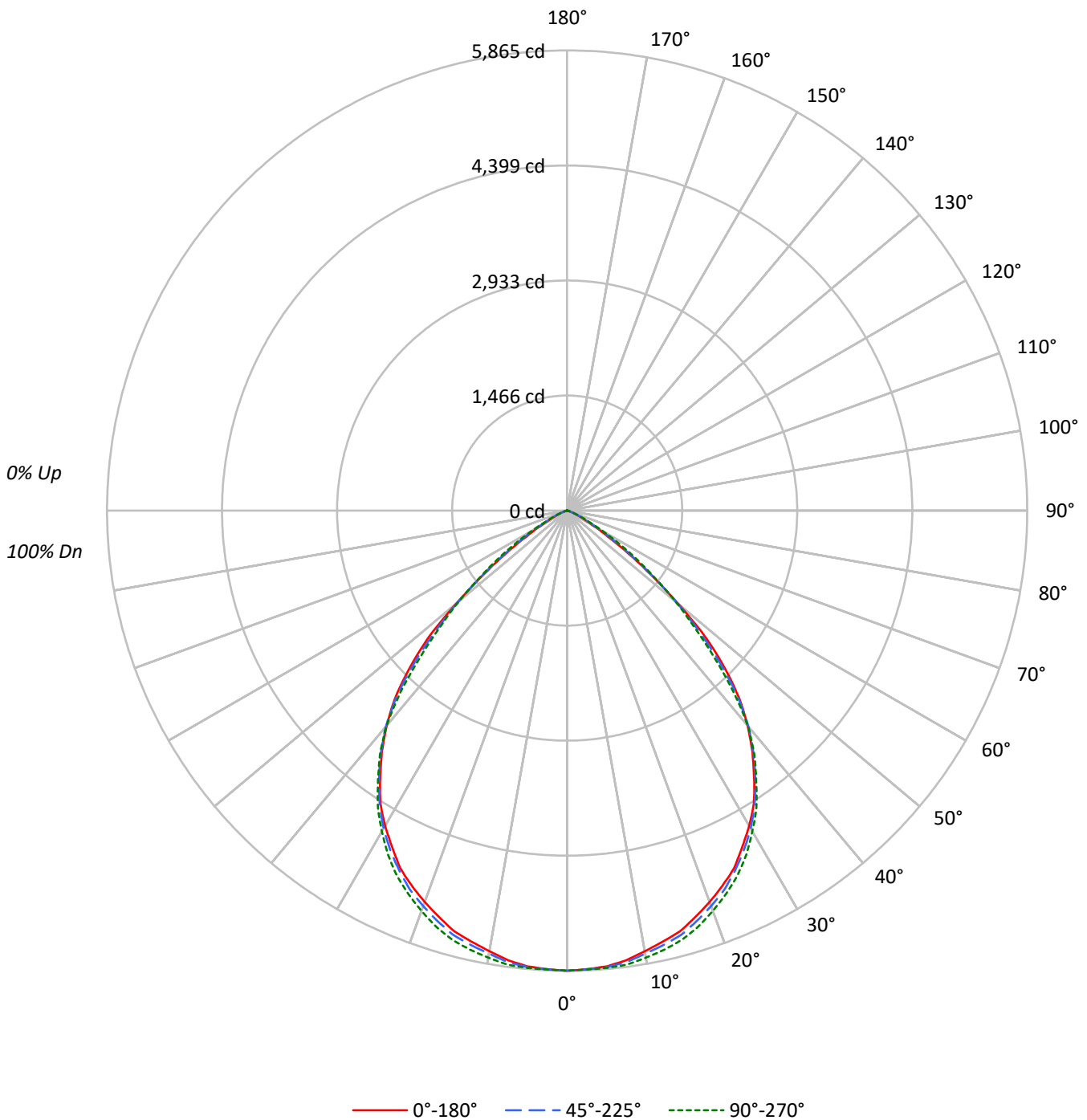
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91						
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81						
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72						
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43						
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39						
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36						

**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°	554.1	5.4
10°-20°	1576.8	15.2
20°-30°	2329.5	22.5
30°-40°	2603.0	25.2
40°-50°	2101.5	20.3
50°-60°	934.7	9.0
60°-70°	210.6	2.0
70°-80°	32.5	0.3
80°-90°	3.9	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°	4460.4	43.1
0°-40°	7063.5	68.3
0°-60°	10099.7	97.6
0°-90°	10346.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10346.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5865	5865	5865	5865	5865	
5°	5830	5829	5839	5840	5850	552
15°	5553	5556	5602	5643	5662	1562
25°	5031	5031	5064	5105	5134	2307
35°	4154	4152	4180	4184	4202	2590
45°	2847	2825	2772	2674	2661	2153
55°	946	960	1003	1055	1086	890
65°	156	175	188	204	216	181
75°	21	29	30	29	35	27
85°	2	4	6	13	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5864.6	5864.6	5864.6	5864.6	5864.6
2.5°	5849.7	5846.2	5851.9	5848.4	5854.3
5°	5830.0	5828.8	5839.2	5840.4	5849.7
7.5°	5779.2	5780.4	5802.3	5818.5	5837.0
10°	5702.0	5706.6	5735.4	5771.1	5786.1
12.5°	5628.0	5633.8	5670.8	5720.4	5731.9
15°	5553.0	5556.5	5601.5	5643.0	5661.6
17.5°	5430.7	5453.8	5488.4	5535.8	5560.0
20°	5308.4	5324.5	5363.8	5415.8	5429.6
22.5°	5174.6	5191.9	5231.0	5273.8	5288.7
25°	5031.4	5031.4	5063.7	5105.2	5134.2
27.5°	4831.8	4856.1	4879.1	4916.0	4944.9
30°	4641.4	4650.6	4678.3	4708.3	4722.2
32.5°	4430.2	4431.4	4444.1	4477.5	4490.2
35°	4154.4	4152.0	4179.8	4184.4	4201.8
37.5°	3878.6	3890.1	3900.5	3916.7	3917.8
40°	3577.4	3583.1	3594.7	3577.4	3585.5
42.5°	3249.7	3241.6	3219.6	3167.8	3145.8
45°	2846.9	2825.0	2771.9	2673.8	2661.1
47.5°	2402.7	2348.4	2283.8	2211.1	2197.2
50°	1847.6	1852.2	1819.9	1795.6	1798.0
52.5°	1346.7	1362.8	1370.9	1394.0	1406.7
55°	946.2	960.1	1002.8	1054.8	1086.0
57.5°	612.8	639.3	694.7	753.5	775.5
60°	391.2	408.5	458.1	500.8	529.6
62.5°	256.2	262.0	289.7	328.8	330.1
65°	155.8	175.4	188.1	204.3	215.8
67.5°	101.6	101.6	113.1	128.1	131.5
70°	58.8	60.0	65.8	71.6	75.0
72.5°	32.3	35.8	39.3	45.0	50.7
75°	20.8	28.8	30.0	28.8	34.6
77.5°	13.8	13.8	11.6	19.6	20.8
80°	11.6	8.1	10.4	15.0	16.2
82.5°	0.0	1.1	1.1	2.4	0.0
85°	2.4	3.5	5.7	12.7	3.5
87.5°	0.0	3.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)