

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: P247716

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247716  
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: LSR8B100D010 EC8B1009730 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: 8286.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

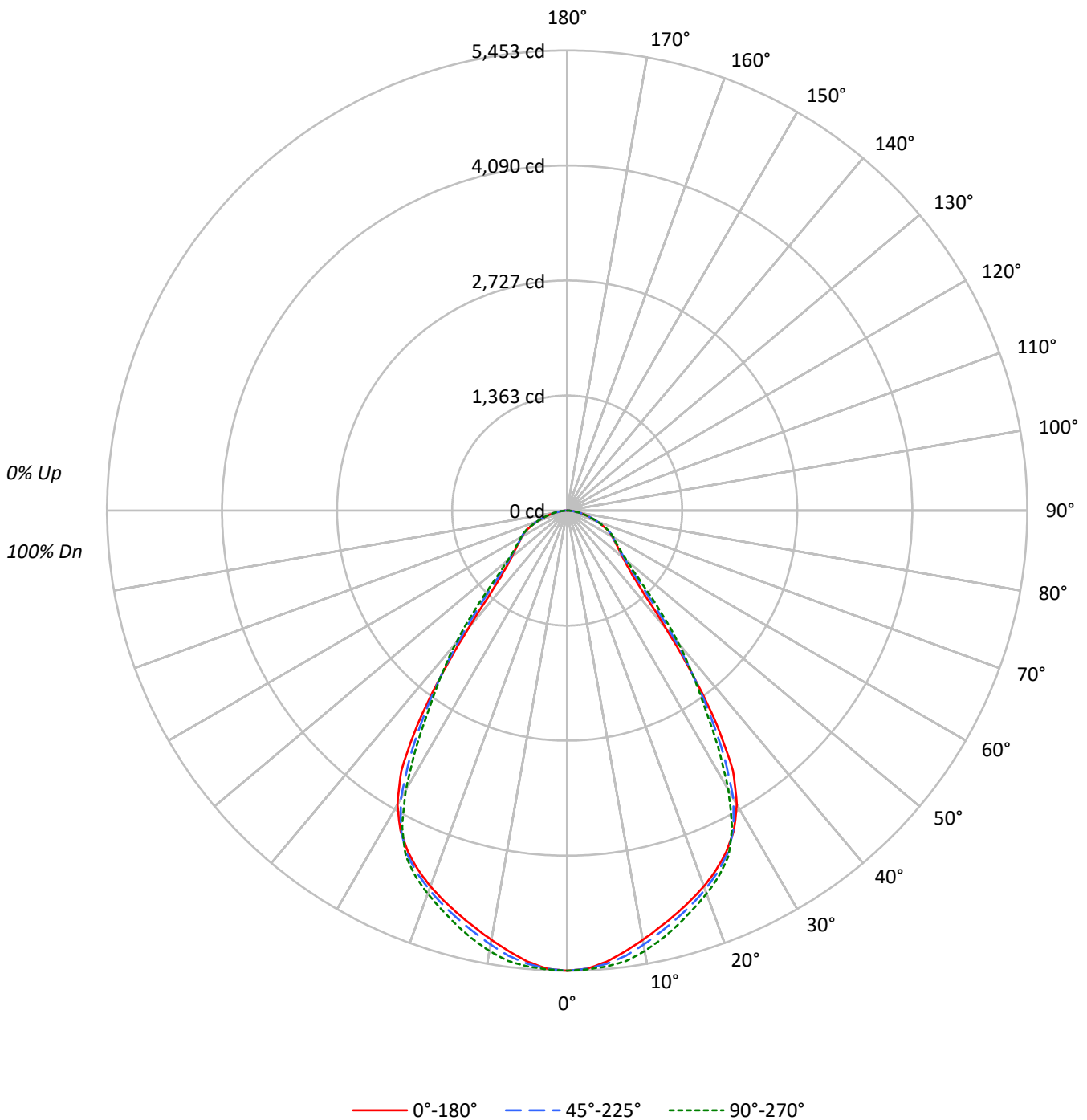
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	509.5	6.1
10°-20°	1413.7	17.1
20°-30°	2043.7	24.7
30°-40°	1829.0	22.1
40°-50°	989.8	11.9
50°-60°	659.7	8.0
60°-70°	505.2	6.1
70°-80°	267.7	3.2
80°-90°	67.7	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°	3966.9	47.9
0°-40°	5795.8	69.9
0°-60°	7445.3	89.9
0°-90°	8286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8286.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5453	5453	5453	5453	5453	
5°	5366	5368	5392	5413	5422	506
15°	4956	4966	5009	5057	5080	1398
25°	4463	4474	4491	4512	4520	2042
35°	3087	3056	2948	2863	2836	1869
45°	1110	1143	1215	1290	1318	914
55°	718	721	728	735	738	649
65°	511	513	517	521	521	501
75°	248	248	251	252	252	266
85°	57	57	57	58	57	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5452.8	5452.8	5452.8	5452.8	5452.8
2.5°	5434.6	5432.7	5433.6	5439.4	5442.2
5°	5365.7	5368.5	5391.5	5412.6	5422.1
7.5°	5269.0	5281.4	5320.7	5361.8	5382.9
10°	5165.6	5178.0	5223.0	5281.4	5299.6
12.5°	5059.3	5074.6	5114.8	5174.2	5196.2
15°	4955.9	4965.5	5008.6	5057.4	5080.4
17.5°	4849.7	4859.2	4898.5	4936.8	4955.0
20°	4738.6	4749.2	4778.8	4811.4	4831.5
22.5°	4611.3	4621.8	4646.7	4675.4	4693.6
25°	4462.9	4473.5	4490.7	4511.7	4520.4
27.5°	4275.3	4282.0	4265.7	4248.5	4233.2
30°	4020.7	3999.6	3934.5	3851.2	3818.7
32.5°	3658.8	3590.8	3465.4	3363.9	3326.6
35°	3087.3	3055.7	2948.5	2863.3	2835.5
37.5°	2421.0	2442.1	2434.4	2428.7	2434.4
40°	1805.5	1854.3	1959.6	2031.4	2054.4
42.5°	1367.0	1413.9	1532.6	1632.2	1666.7
45°	1110.5	1143.0	1214.8	1290.4	1318.2
47.5°	958.3	976.4	1012.8	1053.0	1066.4
50°	860.6	868.3	886.5	909.4	917.1
52.5°	783.1	786.9	797.4	809.9	811.8
55°	718.0	720.8	727.5	735.2	738.1
57.5°	663.4	666.3	668.2	673.0	674.9
60°	620.3	620.3	624.2	628.0	629.9
62.5°	573.4	573.4	577.3	581.1	581.1
65°	511.2	513.1	516.9	520.8	520.8
67.5°	443.2	444.2	447.1	450.9	449.9
70°	375.3	375.3	378.1	380.0	381.0
72.5°	310.2	309.2	314.0	315.0	312.1
75°	247.9	247.9	250.8	251.8	251.8
77.5°	193.4	192.4	192.4	193.4	194.3
80°	141.7	142.6	141.7	143.6	145.5
82.5°	98.6	97.6	97.6	97.6	96.7
85°	57.4	57.4	57.4	58.4	57.4
87.5°	23.0	23.0	22.0	22.0	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)