

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: P247444

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247444  
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: LSR8B100D010 EC8B100840 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12048.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

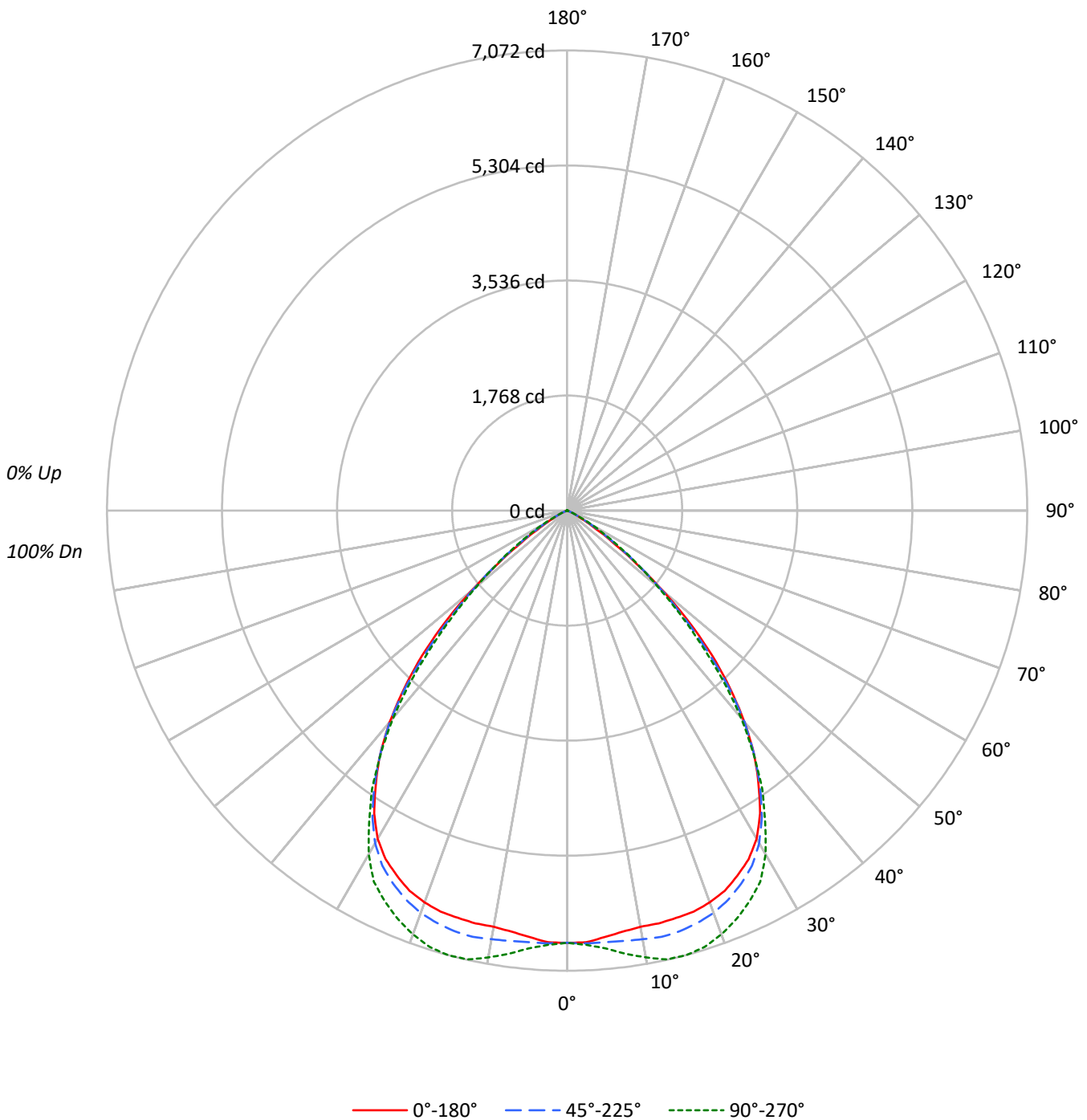
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	204830	204830	204830
5°	203693	206133	209011
10°	203340	209446	218339
15°	206903	213665	225780
20°	210264	215899	227423
25°	210630	215288	225478
30°	207420	210129	217119
35°	193043	194308	196736
40°	170620	170411	167344
45°	137434	132310	127186
50°	92285	89867	86836
55°	46853	50874	53998
60°	19186	23491	27389
65°	7158	7632	8953
70°	469	469	352
75°	917	1537	2002
80°	231	0	0
85°	920	0	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.9	5.3
10°-20°	1900.9	15.8
20°-30°	2925.2	24.3
30°-40°	3203.8	26.6
40°-50°	2329.5	19.3
50°-60°	896.1	7.4
60°-70°	140.4	1.2
70°-80°	10.1	0.1
80°-90°	4.1	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°	5464.0	45.4
0°-40°	8667.8	71.9
0°-60°	11893.5	98.7
0°-90°	12048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6642	6642	6642	6642	6642	
5°	6580	6614	6659	6723	6752	625
15°	6481	6532	6693	6941	7072	1834
25°	6191	6228	6328	6515	6627	2847
35°	5128	5128	5162	5194	5226	3184
45°	3152	3119	3034	2956	2916	2396
55°	872	895	946	977	1004	851
65°	98	102	105	119	123	120
75°	8	17	13	17	17	10
85°	3	0	0	0	3	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6642.5	6642.5	6642.5	6642.5	6642.5
2.5°	6641.2	6651.5	6658.0	6672.2	6678.7
5°	6580.5	6614.1	6659.3	6722.6	6752.3
7.5°	6527.6	6574.1	6670.9	6807.8	6868.4
10°	6494.0	6544.4	6689.0	6874.9	6973.0
12.5°	6497.9	6553.4	6709.6	6933.0	7064.7
15°	6481.1	6531.5	6692.9	6940.7	7072.4
17.5°	6461.8	6503.1	6646.4	6889.1	7031.1
20°	6407.5	6442.4	6579.2	6798.7	6930.4
22.5°	6326.2	6358.5	6472.1	6676.1	6797.4
25°	6190.6	6228.1	6327.5	6514.7	6627.0
27.5°	6039.6	6061.5	6153.2	6323.6	6430.8
30°	5825.3	5833.0	5901.4	6033.1	6097.7
32.5°	5519.3	5518.0	5569.6	5635.5	5660.0
35°	5128.1	5128.1	5161.7	5193.9	5226.2
37.5°	4721.4	4716.2	4720.1	4727.9	4700.8
40°	4238.6	4228.2	4233.4	4186.9	4157.2
42.5°	3709.2	3718.3	3666.6	3584.0	3553.0
45°	3151.5	3119.2	3034.0	2956.5	2916.5
47.5°	2558.9	2508.5	2427.2	2347.1	2340.7
50°	1923.7	1926.3	1873.3	1828.1	1810.1
52.5°	1335.0	1349.2	1376.3	1381.4	1387.9
55°	871.5	894.7	946.3	977.3	1004.4
57.5°	533.2	575.8	619.7	677.8	683.0
60°	311.1	331.8	380.9	424.8	444.1
62.5°	175.6	195.0	205.3	231.1	237.6
65°	98.1	102.0	104.6	118.8	122.7
67.5°	59.4	62.0	64.6	63.3	65.8
70°	5.2	11.6	5.2	6.5	3.9
72.5°	21.9	14.2	15.5	11.6	7.7
75°	7.7	16.8	12.9	16.8	16.8
77.5°	5.2	3.9	6.5	7.7	6.5
80°	1.3	0.0	0.0	0.0	0.0
82.5°	11.6	10.3	6.5	10.3	3.9
85°	2.6	0.0	0.0	0.0	2.6
87.5°	7.7	3.9	3.9	9.0	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)