

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: P247248

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100835 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10721.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

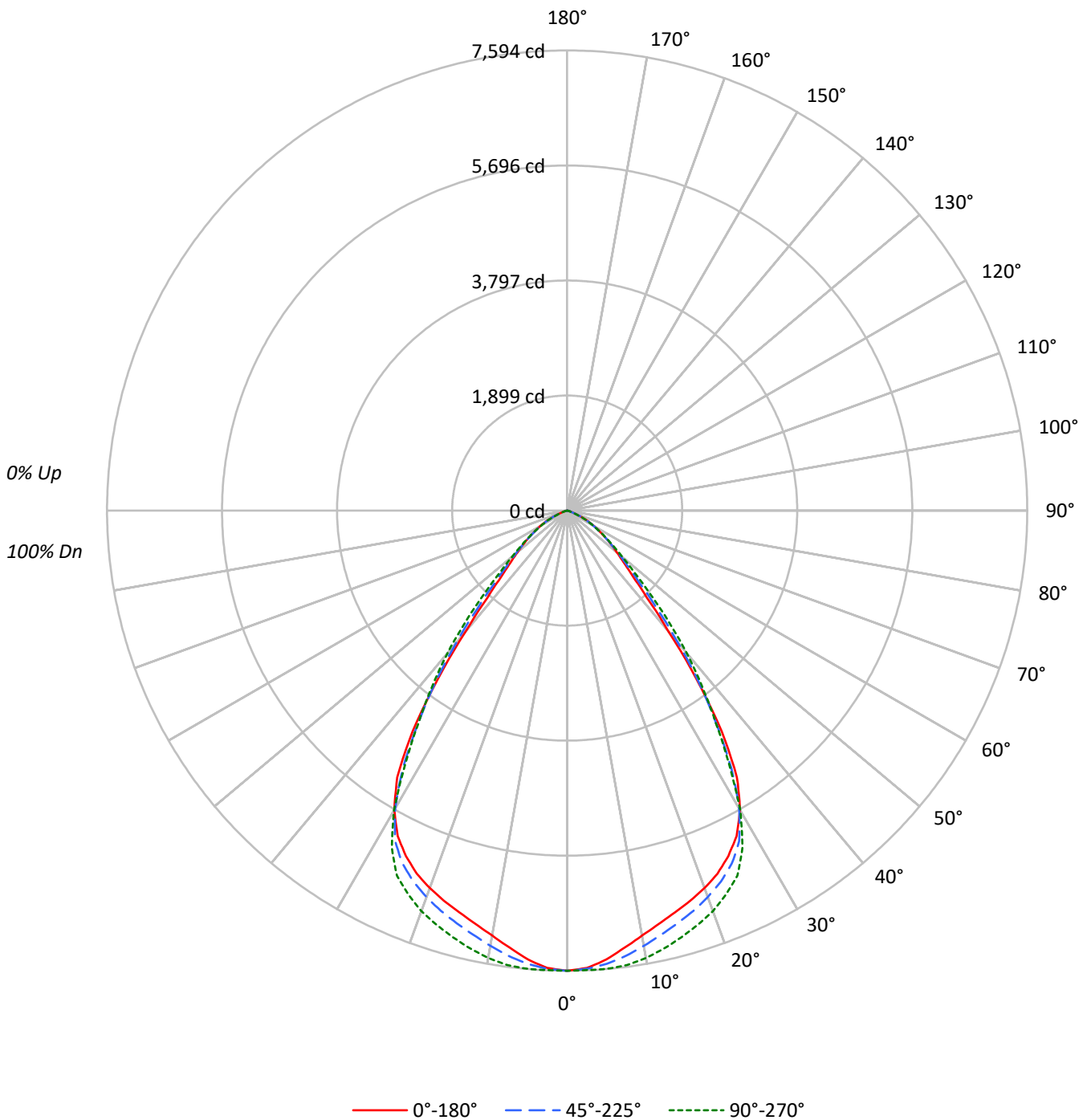
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	234186	234186	234186
5°	230175	232388	234960
10°	222989	228399	234749
15°	219216	225023	232698
20°	217490	222734	230793
25°	214049	218778	226121
30°	203090	202257	203553
35°	167404	161486	161095
40°	104886	114249	123716
45°	66478	73900	83193
50°	51182	53178	56920
55°	40520	40380	41848
60°	31576	30935	30775
65°	21240	20386	19817
70°	9728	8908	8439
75°	4647	4182	3872
80°	2309	2078	2078
85°	1380	1380	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.2	6.6
10°-20°	1994.3	18.6
20°-30°	2937.2	27.4
30°-40°	2671.5	24.9
40°-50°	1382.9	12.9
50°-60°	692.8	6.5
60°-70°	282.2	2.6
70°-80°	45.0	0.4
80°-90°	4.8	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
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0°-30°	5641.7	52.6
0°-40°	8313.2	77.5
0°-60°	10389.0	96.9
0°-90°	10721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10721.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7594	7594	7594	7594	7594	
5°	7436	7456	7508	7565	7591	699
15°	6867	6914	7049	7211	7289	1941
25°	6291	6334	6430	6577	6646	2880
35°	4447	4418	4290	4253	4279	2682
45°	1524	1578	1695	1826	1908	1256
55°	754	751	751	765	778	685
65°	291	290	279	276	272	294
75°	39	38	35	32	32	49
85°	4	4	4	3	3	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7594.5	7594.5	7594.5	7594.5	7594.5
2.5°	7554.2	7558.1	7568.5	7580.2	7589.3
5°	7436.0	7455.5	7507.5	7564.6	7590.6
7.5°	7274.8	7317.7	7412.6	7519.2	7565.9
10°	7121.5	7170.9	7294.3	7437.3	7497.1
12.5°	6986.3	7034.4	7168.3	7328.1	7402.2
15°	6866.8	6913.6	7048.7	7211.2	7289.1
17.5°	6753.7	6796.6	6925.3	7087.7	7167.0
20°	6627.7	6665.4	6787.5	6944.8	7033.1
22.5°	6484.7	6513.3	6627.7	6777.1	6855.1
25°	6291.1	6334.0	6430.1	6577.0	6645.9
27.5°	6054.6	6081.9	6148.1	6237.8	6266.4
30°	5703.7	5702.4	5680.3	5680.3	5716.7
32.5°	5216.4	5154.0	5048.7	4985.0	4979.8
35°	4447.0	4418.4	4289.8	4253.4	4279.4
37.5°	3508.8	3528.3	3560.7	3612.7	3659.5
40°	2605.6	2655.0	2838.2	3001.9	3073.4
42.5°	1944.1	2007.8	2194.9	2374.3	2461.3
45°	1524.4	1577.6	1694.6	1825.9	1907.7
47.5°	1260.6	1287.8	1350.2	1438.6	1480.2
50°	1066.9	1079.9	1108.5	1154.0	1186.5
52.5°	905.8	900.6	916.2	946.1	957.8
55°	753.7	751.1	751.1	765.4	778.4
57.5°	625.1	621.2	613.4	619.9	623.8
60°	512.0	508.1	501.6	500.3	499.0
62.5°	412.0	405.5	392.5	389.9	389.9
65°	291.1	289.8	279.4	275.5	271.6
67.5°	180.6	175.4	166.3	158.5	157.2
70°	107.9	106.6	98.8	93.6	93.6
72.5°	65.0	62.4	58.5	55.9	54.6
75°	39.0	37.7	35.1	32.5	32.5
77.5°	23.4	22.1	20.8	19.5	19.5
80°	13.0	13.0	11.7	11.7	11.7
82.5°	7.8	7.8	6.5	6.5	6.5
85°	3.9	3.9	3.9	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)