

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: P247680

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247680  
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 EC8B100835 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11248.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

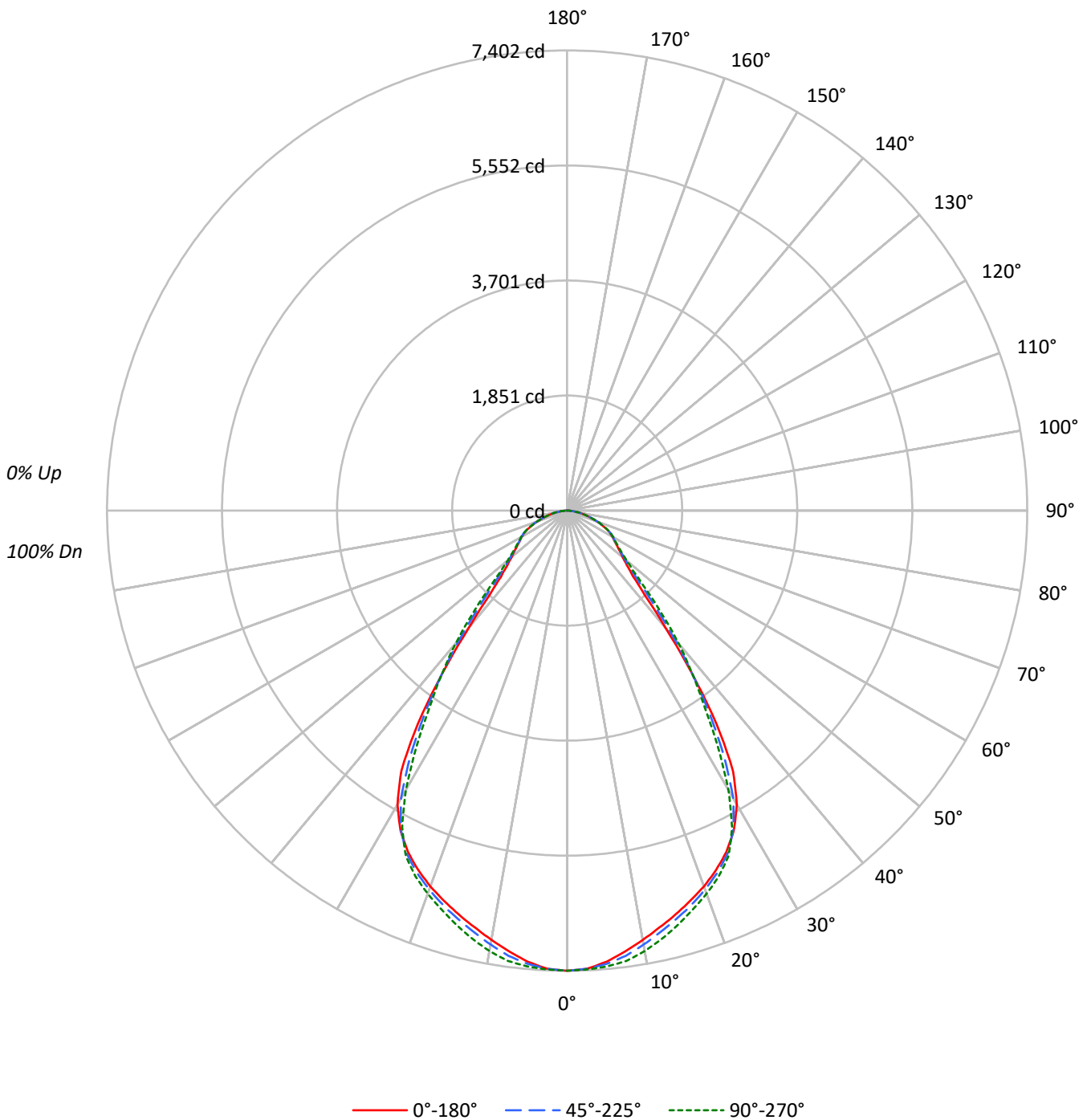
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	228250	228250	228250
5°	225460	226547	227835
10°	219563	222005	225262
15°	214769	217052	220165
20°	211085	212876	215223
25°	206128	207411	208782
30°	194338	190175	184574
35°	157763	150671	144896
40°	98658	107080	112256
45°	65736	71916	78034
50°	56047	57726	59721
55°	52396	53095	53864
60°	51935	52255	52736
65°	50630	51199	51579
70°	45927	46279	46630
75°	40103	40568	40723
80°	34148	34148	35072
85°	27597	27597	27597



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.6	6.1
10°-20°	1919.0	17.1
20°-30°	2774.2	24.7
30°-40°	2482.8	22.1
40°-50°	1343.6	11.9
50°-60°	895.5	8.0
60°-70°	685.8	6.1
70°-80°	363.4	3.2
80°-90°	91.9	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°	5384.9	47.9
0°-40°	7867.7	69.9
0°-60°	10106.8	89.9
0°-90°	11248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7402	7402	7402	7402	7402	
5°	7284	7288	7319	7347	7360	686
15°	6728	6740	6799	6865	6896	1898
25°	6058	6073	6096	6125	6136	2772
35°	4191	4148	4002	3887	3849	2537
45°	1507	1552	1649	1752	1789	1240
55°	975	978	988	998	1002	882
65°	694	696	702	707	707	680
75°	337	337	340	342	342	361
85°	78	78	78	79	78	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7402.0	7402.0	7402.0	7402.0	7402.0
2.5°	7377.3	7374.7	7376.0	7383.8	7387.7
5°	7283.7	7287.6	7318.8	7347.4	7360.4
7.5°	7152.5	7169.4	7222.6	7278.5	7307.1
10°	7012.1	7029.0	7090.1	7169.4	7194.1
12.5°	6867.9	6888.7	6943.2	7023.8	7053.7
15°	6727.5	6740.5	6799.0	6865.3	6896.5
17.5°	6583.3	6596.3	6649.6	6701.5	6726.2
20°	6432.5	6446.8	6487.1	6531.3	6558.6
22.5°	6259.7	6274.0	6307.8	6346.8	6371.5
25°	6058.3	6072.6	6096.0	6124.6	6136.3
27.5°	5803.6	5812.7	5790.6	5767.2	5746.4
30°	5457.9	5429.3	5341.0	5227.9	5183.7
32.5°	4966.7	4874.4	4704.2	4566.5	4515.8
35°	4190.9	4148.0	4002.5	3886.8	3849.1
37.5°	3286.4	3315.0	3304.6	3296.8	3304.6
40°	2450.9	2517.1	2660.1	2757.5	2788.7
42.5°	1855.7	1919.4	2080.5	2215.7	2262.4
45°	1507.4	1551.6	1649.1	1751.7	1789.4
47.5°	1300.8	1325.5	1374.9	1429.5	1447.6
50°	1168.3	1178.6	1203.3	1234.5	1244.9
52.5°	1063.0	1068.2	1082.5	1099.4	1102.0
55°	974.6	978.5	987.6	998.0	1001.9
57.5°	900.6	904.5	907.1	913.6	916.2
60°	842.1	842.1	847.3	852.5	855.1
62.5°	778.4	778.4	783.6	788.8	788.8
65°	693.9	696.5	701.7	706.9	706.9
67.5°	601.7	603.0	606.9	612.1	610.8
70°	509.4	509.4	513.3	515.9	517.2
72.5°	421.0	419.7	426.2	427.5	423.6
75°	336.6	336.6	340.5	341.8	341.8
77.5°	262.5	261.2	261.2	262.5	263.8
80°	192.3	193.6	192.3	194.9	197.5
82.5°	133.8	132.5	132.5	132.5	131.2
85°	78.0	78.0	78.0	79.3	78.0
87.5°	31.2	31.2	29.9	29.9	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)