

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: P247508

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8412.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

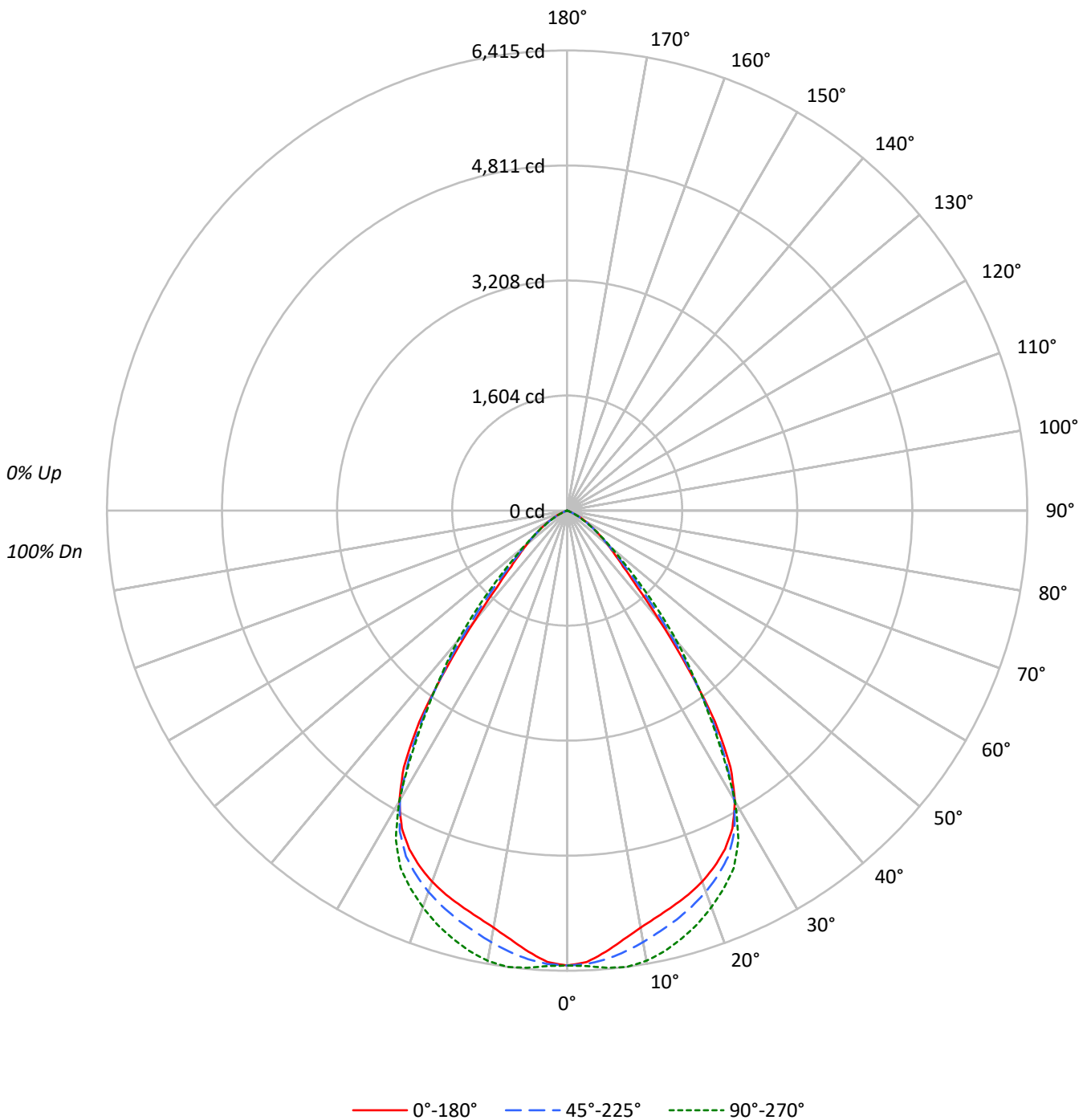
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	195552	195552	195552
5°	191120	194342	198047
10°	184794	191248	199573
15°	182178	188406	197144
20°	180648	185594	193046
25°	177160	180930	187000
30°	166540	165909	166700
35°	135316	130772	128769
40°	80335	88543	95901
45°	48079	54123	61467
50°	35030	35936	38594
55°	25375	24483	25021
60°	17219	15924	15307
65°	8654	8004	7603
70°	2398	2101	1902
75°	929	655	655
80°	391	391	195
85°	389	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.6	7.1
10°-20°	1669.8	19.8
20°-30°	2426.9	28.9
30°-40°	2146.2	25.5
40°-50°	1020.9	12.1
50°-60°	425.3	5.1
60°-70°	118.8	1.4
70°-80°	9.0	0.1
80°-90°	0.7	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°	4691.2	55.8
0°-40°	6837.4	81.3
0°-60°	8283.6	98.5
0°-90°	8412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6342	6342	6342	6342	6342	
5°	6174	6205	6278	6362	6398	581
15°	5707	5759	5902	6081	6175	1612
25°	5207	5230	5318	5435	5496	2380
35°	3595	3544	3474	3421	3421	2152
45°	1102	1141	1241	1356	1410	918
55°	472	466	455	455	465	429
65°	119	116	110	105	104	129
75°	8	7	6	6	6	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6341.6	6341.6	6341.6	6341.6	6341.6
2.5°	6299.5	6305.0	6326.1	6346.0	6354.9
5°	6174.3	6205.3	6278.4	6361.5	6398.1
7.5°	6031.3	6077.9	6200.9	6347.1	6414.7
10°	5901.7	5960.4	6107.8	6288.4	6373.7
12.5°	5799.7	5854.0	6004.7	6193.1	6289.5
15°	5706.6	5758.7	5901.7	6081.2	6175.4
17.5°	5613.6	5663.4	5786.4	5953.8	6044.6
20°	5505.0	5544.9	5655.7	5803.1	5882.8
22.5°	5369.8	5406.4	5499.4	5630.2	5702.2
25°	5206.9	5230.2	5317.7	5435.2	5496.1
27.5°	4990.8	4996.4	5049.6	5126.0	5171.4
30°	4677.2	4673.9	4659.5	4656.2	4681.7
32.5°	4238.4	4189.7	4105.5	4065.6	4034.5
35°	3594.6	3543.7	3473.9	3420.7	3420.7
37.5°	2748.1	2792.4	2820.1	2853.3	2869.9
40°	1995.7	2061.0	2199.6	2343.6	2382.4
42.5°	1450.5	1511.4	1661.0	1821.7	1868.2
45°	1102.5	1141.3	1241.1	1356.3	1409.5
47.5°	890.9	902.0	951.8	1020.5	1046.0
50°	730.2	733.6	749.1	784.5	804.5
52.5°	590.6	588.4	592.8	602.8	611.7
55°	472.0	466.5	455.4	455.4	465.4
57.5°	364.6	356.8	344.6	339.1	335.8
60°	279.2	271.5	258.2	249.3	248.2
62.5°	200.6	193.9	180.6	172.9	170.6
65°	118.6	116.3	109.7	105.3	104.2
67.5°	55.4	53.2	47.6	45.4	44.3
70°	26.6	25.5	23.3	22.2	21.1
72.5°	13.3	13.3	11.1	11.1	11.1
75°	7.8	6.6	5.5	5.5	5.5
77.5°	4.4	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)