

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: P247468

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247468  
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 EC8B100950 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11183.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 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

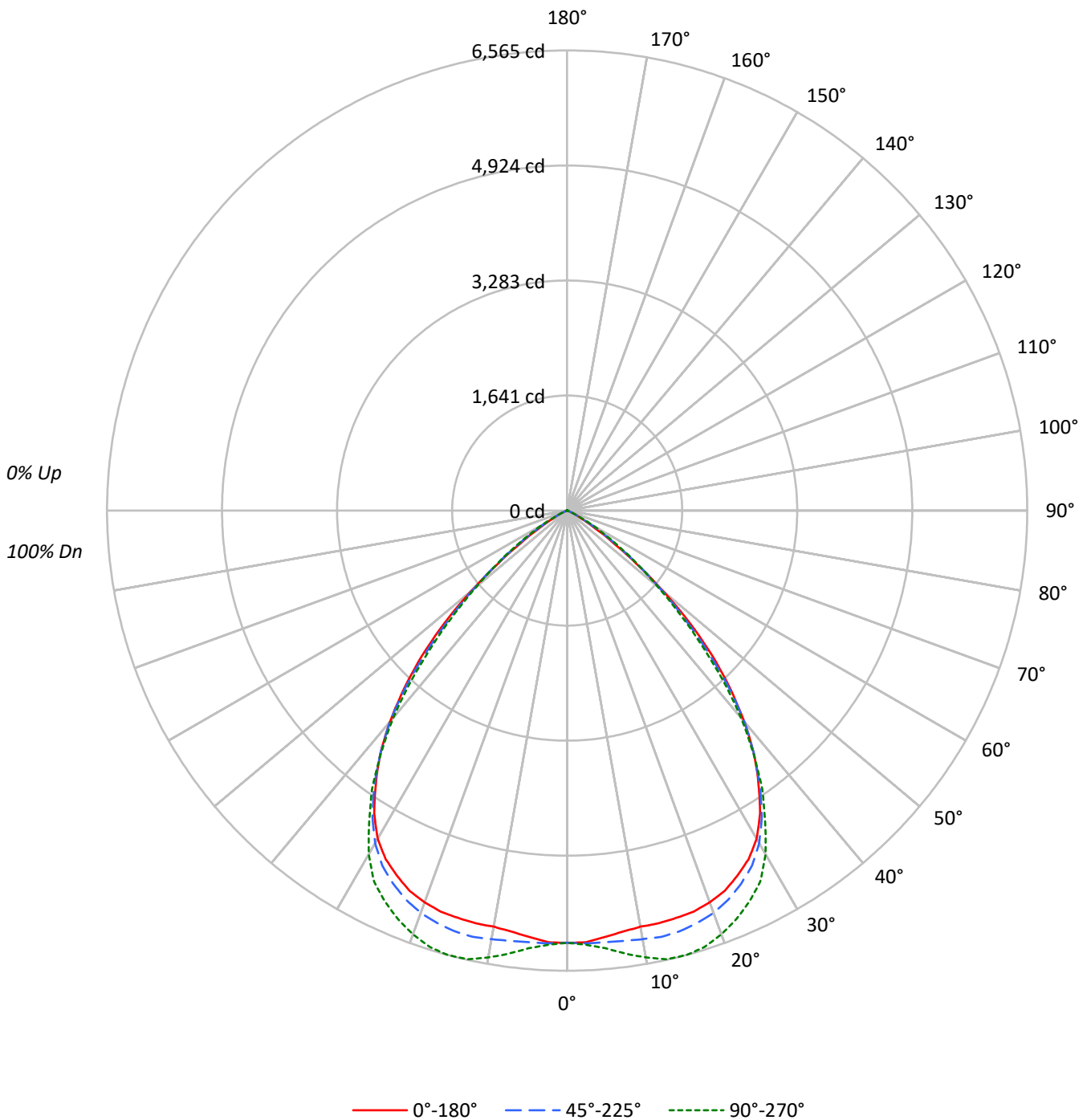
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	190124	190124	190124
5°	189071	191334	194005
10°	188743	194407	202664
15°	192049	198322	209572
20°	195169	200400	211094
25°	195509	199830	209289
30°	192525	195043	201530
35°	179183	180357	182612
40°	158367	158174	155328
45°	127565	122812	118054
50°	85660	83415	80599
55°	43488	47224	50122
60°	17811	21801	25421
65°	6647	7085	8303
70°	433	433	325
75°	858	1430	1859
80°	213	0	0
85°	849	0	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.1	5.3
10°-20°	1764.4	15.8
20°-30°	2715.2	24.3
30°-40°	2973.8	26.6
40°-50°	2162.3	19.3
50°-60°	831.8	7.4
60°-70°	130.3	1.2
70°-80°	9.4	0.1
80°-90°	3.8	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
0°-30°	5071.7	45.4
0°-40°	8045.5	71.9
0°-60°	11039.6	98.7
0°-90°	11183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6166	6166	6166	6166	6166	
5°	6108	6139	6181	6240	6268	580
15°	6016	6062	6212	6442	6565	1702
25°	5746	5781	5873	6047	6151	2643
35°	4760	4760	4791	4821	4851	2956
45°	2925	2895	2816	2744	2707	2224
55°	809	830	878	907	932	790
65°	91	95	97	110	114	112
75°	7	16	12	16	16	9
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6165.6	6165.6	6165.6	6165.6	6165.6
2.5°	6164.4	6174.0	6180.0	6193.2	6199.2
5°	6108.1	6139.2	6181.2	6239.9	6267.5
7.5°	6058.9	6102.1	6192.0	6319.0	6375.3
10°	6027.8	6074.5	6208.7	6381.3	6472.4
12.5°	6031.4	6082.9	6227.9	6435.2	6557.5
15°	6015.8	6062.5	6212.3	6442.4	6564.7
17.5°	5997.8	6036.2	6169.2	6394.5	6526.3
20°	5947.5	5979.9	6106.9	6310.6	6432.8
22.5°	5872.0	5902.0	6007.4	6196.8	6309.4
25°	5746.2	5780.9	5873.2	6047.0	6151.2
27.5°	5606.0	5626.3	5711.4	5869.6	5969.1
30°	5407.0	5414.2	5477.7	5600.0	5659.9
32.5°	5123.0	5121.8	5169.8	5230.9	5253.6
35°	4759.9	4759.9	4791.1	4821.0	4851.0
37.5°	4382.4	4377.6	4381.2	4388.4	4363.3
40°	3934.2	3924.7	3929.4	3886.3	3858.7
42.5°	3442.9	3451.3	3403.4	3326.7	3297.9
45°	2925.2	2895.3	2816.2	2744.3	2707.1
47.5°	2375.2	2328.4	2252.9	2178.6	2172.6
50°	1785.6	1788.0	1738.8	1696.9	1680.1
52.5°	1239.1	1252.3	1277.5	1282.3	1288.2
55°	808.9	830.5	878.4	907.2	932.3
57.5°	494.9	534.5	575.2	629.1	633.9
60°	288.8	308.0	353.5	394.3	412.2
62.5°	163.0	181.0	190.5	214.5	220.5
65°	91.1	94.7	97.1	110.2	113.8
67.5°	55.1	57.5	59.9	58.7	61.1
70°	4.8	10.8	4.8	6.0	3.6
72.5°	20.4	13.2	14.4	10.8	7.2
75°	7.2	15.6	12.0	15.6	15.6
77.5°	4.8	3.6	6.0	7.2	6.0
80°	1.2	0.0	0.0	0.0	0.0
82.5°	10.8	9.6	6.0	9.6	3.6
85°	2.4	0.0	0.0	0.0	2.4
87.5°	7.2	3.6	3.6	8.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)