

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: P247677

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247677  
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: LSR8B120D010 EC8B120830 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12262.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 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

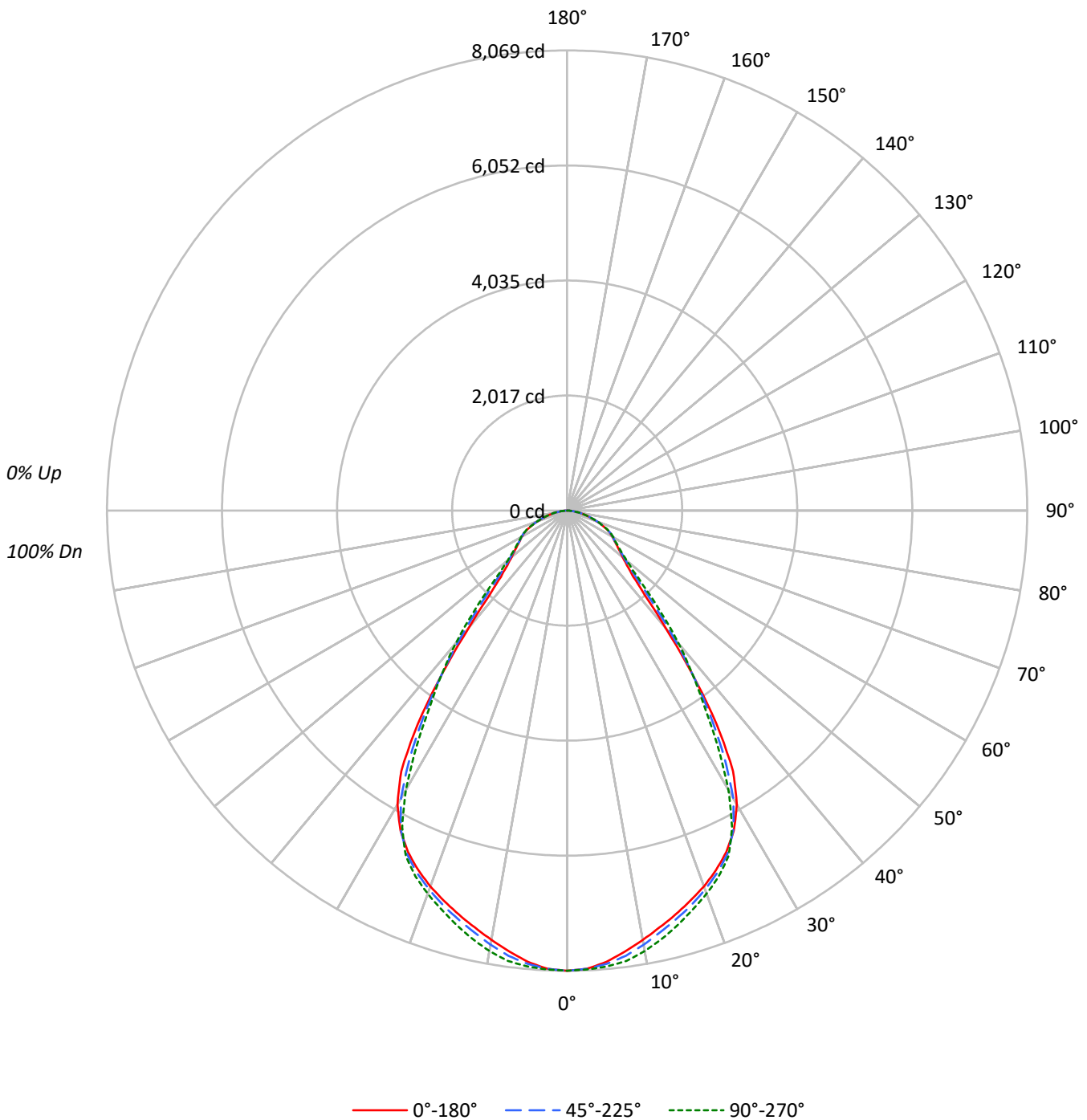
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	248827	248827	248827
5°	245785	246970	248373
10°	239358	242020	245568
15°	234131	236618	240012
20°	230114	232067	234623
25°	224709	226107	227601
30°	211856	207317	201214
35°	171985	164253	157959
40°	107551	116732	122376
45°	71663	78396	85068
50°	61098	62931	65109
55°	57122	57885	58718
60°	56615	56967	57491
65°	55198	55818	56234
70°	50065	50453	50832
75°	43713	44226	44392
80°	37238	37238	38233
85°	30074	30074	30074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.0	6.1
10°-20°	2092.0	17.1
20°-30°	3024.3	24.7
30°-40°	2706.6	22.1
40°-50°	1464.7	11.9
50°-60°	976.3	8.0
60°-70°	747.6	6.1
70°-80°	396.2	3.2
80°-90°	100.2	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°	5870.3	47.9
0°-40°	8576.9	69.9
0°-60°	11017.9	89.9
0°-90°	12262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8069	8069	8069	8069	8069	
5°	7940	7945	7979	8010	8024	748
15°	7334	7348	7412	7484	7518	2069
25°	6604	6620	6646	6677	6689	3022
35°	4569	4522	4363	4237	4196	2766
45°	1643	1692	1798	1910	1951	1352
55°	1062	1067	1077	1088	1092	961
65°	756	759	765	771	771	742
75°	367	367	371	373	373	394
85°	85	85	85	86	85	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8069.3	8069.3	8069.3	8069.3	8069.3
2.5°	8042.3	8039.5	8040.9	8049.4	8053.7
5°	7940.3	7944.6	7978.6	8009.8	8023.9
7.5°	7797.3	7815.7	7873.8	7934.7	7965.8
10°	7644.3	7662.7	7729.3	7815.7	7842.6
12.5°	7487.0	7509.7	7569.2	7657.0	7689.6
15°	7334.0	7348.2	7411.9	7484.2	7518.2
17.5°	7176.8	7190.9	7249.0	7305.7	7332.6
20°	7012.4	7028.0	7071.9	7120.1	7149.8
22.5°	6824.0	6839.6	6876.4	6918.9	6945.9
25°	6604.4	6620.0	6645.5	6676.7	6689.4
27.5°	6326.8	6336.7	6312.6	6287.1	6264.4
30°	5949.9	5918.8	5822.4	5699.2	5651.0
32.5°	5414.4	5313.9	5128.3	4978.1	4922.9
35°	4568.7	4522.0	4363.3	4237.2	4196.1
37.5°	3582.7	3613.9	3602.5	3594.0	3602.5
40°	2671.8	2744.1	2899.9	3006.1	3040.1
42.5°	2023.0	2092.4	2268.1	2415.4	2466.4
45°	1643.3	1691.5	1797.7	1909.6	1950.7
47.5°	1418.1	1445.0	1498.8	1558.3	1578.2
50°	1273.6	1284.9	1311.8	1345.8	1357.2
52.5°	1158.8	1164.5	1180.1	1198.5	1201.3
55°	1062.5	1066.7	1076.7	1088.0	1092.2
57.5°	981.7	986.0	988.8	995.9	998.7
60°	918.0	918.0	923.7	929.3	932.2
62.5°	848.6	848.6	854.2	859.9	859.9
65°	756.5	759.3	765.0	770.7	770.7
67.5°	655.9	657.3	661.6	667.2	665.8
70°	555.3	555.3	559.6	562.4	563.8
72.5°	459.0	457.6	464.7	466.1	461.8
75°	366.9	366.9	371.2	372.6	372.6
77.5°	286.2	284.7	284.7	286.2	287.6
80°	209.7	211.1	209.7	212.5	215.3
82.5°	145.9	144.5	144.5	144.5	143.1
85°	85.0	85.0	85.0	86.4	85.0
87.5°	34.0	34.0	32.6	32.6	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)