

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: P247437

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247437  
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: LSR8B120D010 EC8B120830 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13220.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

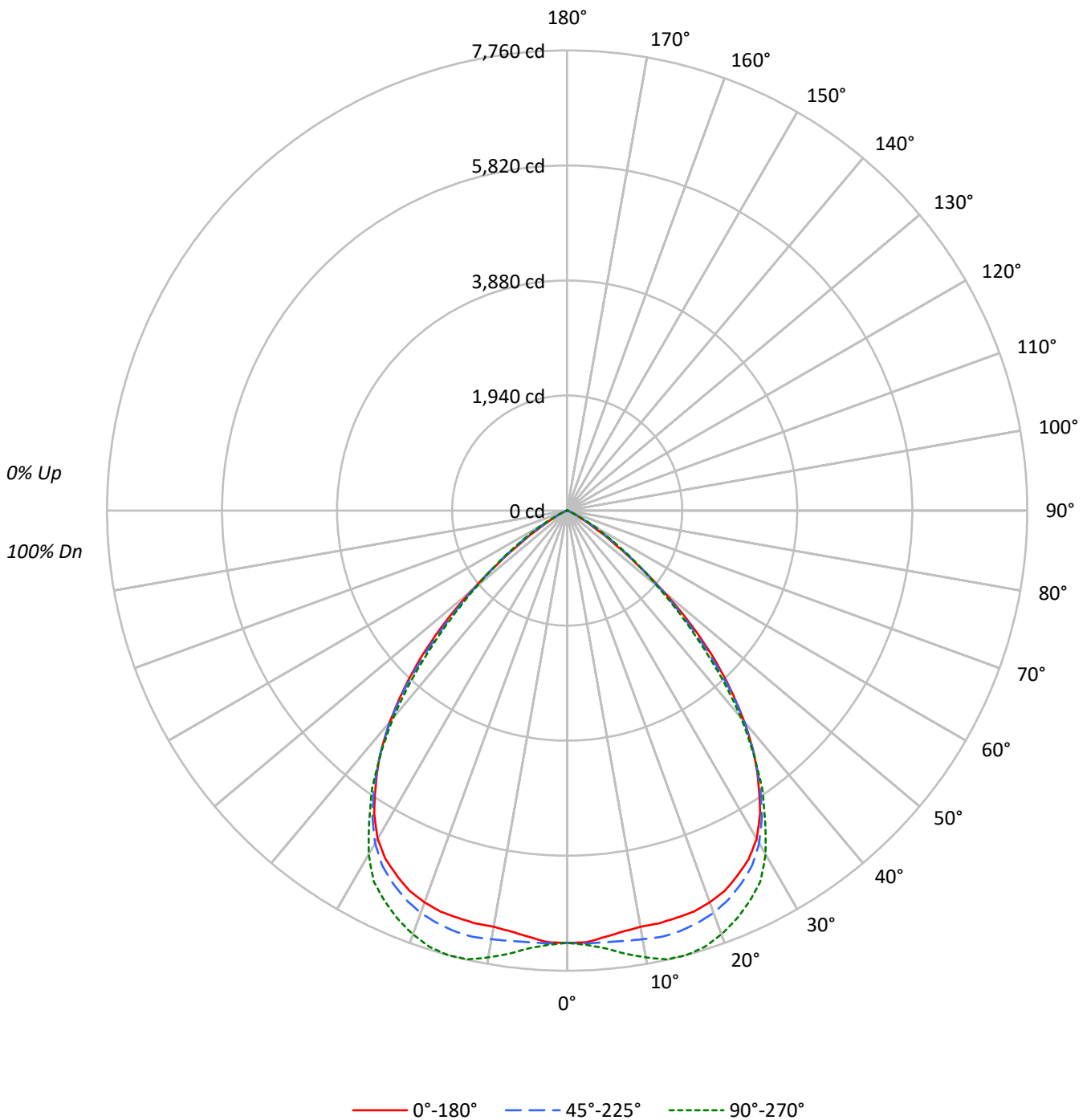
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	224757	224757	224757
5°	223510	226185	229342
10°	223123	229821	239578
15°	227031	234447	247744
20°	230718	236904	249547
25°	231119	236229	247413
30°	227595	230571	238241
35°	211820	213209	215874
40°	187217	186988	183622
45°	150800	145179	139558
50°	101261	98613	95279
55°	51407	55826	59256
60°	21055	25773	30053
65°	7858	8369	9821
70°	514	514	379
75°	1013	1692	2192
80°	249	0	0
85°	991	0	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.9	5.3
10°-20°	2085.8	15.8
20°-30°	3209.7	24.3
30°-40°	3515.5	26.6
40°-50°	2556.1	19.3
50°-60°	983.3	7.4
60°-70°	154.0	1.2
70°-80°	11.1	0.1
80°-90°	4.4	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°	5995.5	45.4
0°-40°	9511.0	71.9
0°-60°	13050.4	98.7
0°-90°	13220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7289	7289	7289	7289	7289	
5°	7221	7258	7307	7376	7409	686
15°	7112	7167	7344	7616	7760	2012
25°	6793	6834	6943	7148	7272	3124
35°	5627	5627	5664	5699	5735	3494
45°	3458	3423	3329	3244	3200	2629
55°	956	982	1038	1072	1102	934
65°	108	112	115	130	135	132
75°	8	18	14	18	18	11
85°	3	0	0	0	3	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7288.7	7288.7	7288.7	7288.7	7288.7
2.5°	7287.3	7298.6	7305.7	7321.3	7328.3
5°	7220.7	7257.5	7307.1	7376.5	7409.1
7.5°	7162.6	7213.6	7319.8	7470.0	7536.6
10°	7125.8	7181.0	7339.7	7543.7	7651.3
12.5°	7130.0	7190.9	7362.3	7607.4	7751.9
15°	7111.6	7166.8	7343.9	7615.9	7760.4
17.5°	7090.3	7135.7	7292.9	7559.3	7715.1
20°	7030.8	7069.1	7219.3	7460.1	7604.6
22.5°	6941.6	6977.0	7101.7	7325.5	7458.7
25°	6792.8	6833.9	6943.0	7148.4	7271.7
27.5°	6627.1	6651.2	6751.8	6938.8	7056.3
30°	6391.9	6400.4	6475.5	6620.0	6690.9
32.5°	6056.2	6054.8	6111.4	6183.7	6210.6
35°	5626.9	5626.9	5663.8	5699.2	5734.6
37.5°	5180.7	5175.0	5179.3	5187.8	5158.0
40°	4650.9	4639.5	4645.2	4594.2	4561.6
42.5°	4070.0	4080.0	4023.3	3932.6	3898.6
45°	3458.0	3422.6	3329.1	3244.1	3200.2
47.5°	2807.8	2752.6	2663.3	2575.5	2568.4
50°	2110.8	2113.6	2055.6	2006.0	1986.1
52.5°	1464.8	1480.4	1510.2	1515.8	1522.9
55°	956.2	981.7	1038.4	1072.4	1102.2
57.5°	585.1	631.8	680.0	743.7	749.4
60°	341.4	364.1	417.9	466.1	487.3
62.5°	192.7	213.9	225.2	253.6	260.7
65°	107.7	111.9	114.7	130.3	134.6
67.5°	65.2	68.0	70.8	69.4	72.2
70°	5.7	12.7	5.7	7.1	4.2
72.5°	24.1	15.6	17.0	12.7	8.5
75°	8.5	18.4	14.2	18.4	18.4
77.5°	5.7	4.2	7.1	8.5	7.1
80°	1.4	0.0	0.0	0.0	0.0
82.5°	12.7	11.3	7.1	11.3	4.2
85°	2.8	0.0	0.0	0.0	2.8
87.5°	8.5	4.2	4.2	9.9	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)