

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: P247157

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120840 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12343.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

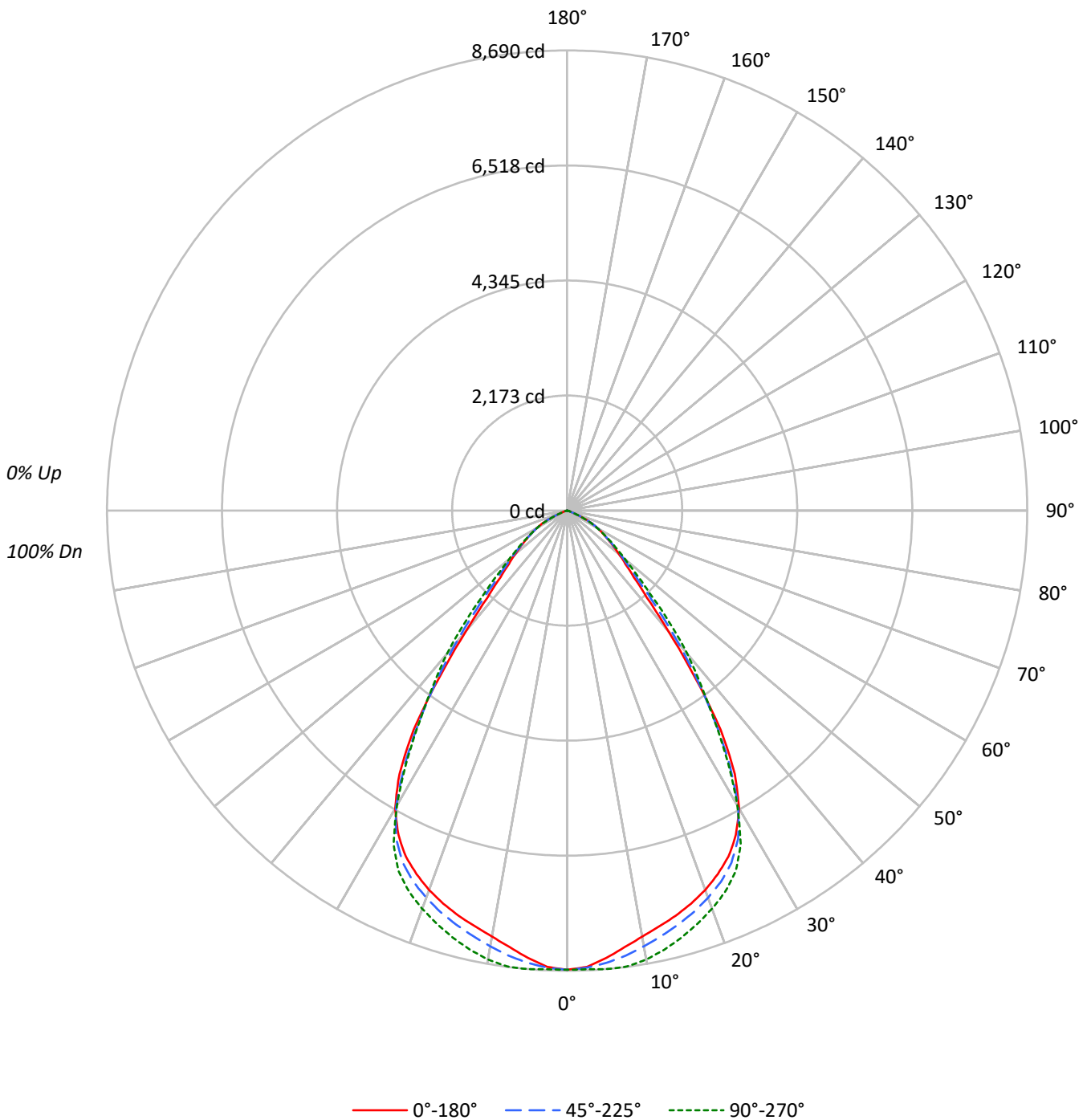
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	267397	267397	267397
5°	262485	265339	269007
10°	255760	261577	269506
15°	252861	258422	266458
20°	250220	255264	262562
25°	245293	249727	256001
30°	231273	230233	228823
35°	190239	183685	182638
40°	119124	131437	142100
45°	77738	86673	96053
50°	61295	64240	68457
55°	49966	50831	52401
60°	40889	40618	40439
65°	26486	25735	24348
70°	9106	8448	7781
75°	3133	2967	2788
80°	1296	1048	1048
85°	531	531	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.3	6.6
10°-20°	2288.7	18.5
20°-30°	3347.2	27.1
30°-40°	3033.0	24.6
40°-50°	1612.7	13.1
50°-60°	860.7	7.0
60°-70°	351.1	2.8
70°-80°	35.4	0.3
80°-90°	2.1	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°	6448.1	52.2
0°-40°	9481.1	76.8
0°-60°	11954.5	96.9
0°-90°	12343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8672	8672	8672	8672	8672	
5°	8480	8502	8572	8650	8690	799
15°	7921	7966	8095	8262	8347	2235
25°	7209	7240	7340	7466	7524	3295
35°	5054	4983	4880	4843	4852	3037
45°	1783	1835	1988	2146	2203	1458
55°	929	928	946	959	975	843
65°	363	362	353	332	334	362
75°	26	26	25	23	23	38
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8671.5	8671.5	8671.5	8671.5	8671.5
2.5°	8624.7	8623.2	8639.3	8658.3	8668.6
5°	8479.8	8501.7	8572.0	8649.6	8690.5
7.5°	8315.9	8356.9	8478.3	8611.5	8683.2
10°	8168.1	8220.7	8353.9	8528.1	8607.1
12.5°	8040.7	8092.0	8226.6	8405.2	8491.5
15°	7920.7	7966.1	8094.9	8261.7	8346.6
17.5°	7781.7	7825.6	7950.0	8108.1	8181.2
20°	7625.1	7661.7	7778.8	7926.6	8001.2
22.5°	7430.4	7469.9	7588.5	7724.6	7794.9
25°	7209.4	7240.2	7339.7	7465.6	7524.1
27.5°	6902.1	6929.9	6988.4	7055.8	7099.7
30°	6495.2	6487.9	6466.0	6445.5	6426.4
32.5°	5895.2	5824.9	5718.1	5650.8	5653.7
35°	5053.6	4983.4	4879.5	4842.9	4851.7
37.5°	3948.7	4001.3	4043.8	4114.0	4147.7
40°	2959.3	3050.0	3265.2	3452.5	3530.1
42.5°	2224.6	2313.9	2539.3	2736.8	2843.7
45°	1782.6	1835.3	1987.5	2145.6	2202.6
47.5°	1492.8	1516.2	1604.0	1705.0	1754.8
50°	1277.7	1292.3	1339.1	1394.8	1427.0
52.5°	1094.7	1100.6	1124.0	1156.2	1176.7
55°	929.4	927.9	945.5	958.6	974.7
57.5°	785.9	784.5	784.5	788.9	799.1
60°	663.0	658.6	658.6	652.7	655.7
62.5°	540.0	535.7	525.4	518.1	515.2
65°	363.0	361.5	352.7	332.2	333.7
67.5°	188.8	187.3	178.6	172.7	169.8
70°	101.0	98.1	93.7	89.3	86.3
72.5°	51.2	49.8	48.3	45.4	45.4
75°	26.3	26.3	24.9	23.4	23.4
77.5°	13.2	13.2	11.7	11.7	11.7
80°	7.3	7.3	5.9	5.9	5.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5
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)