

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: P247237

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9938.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

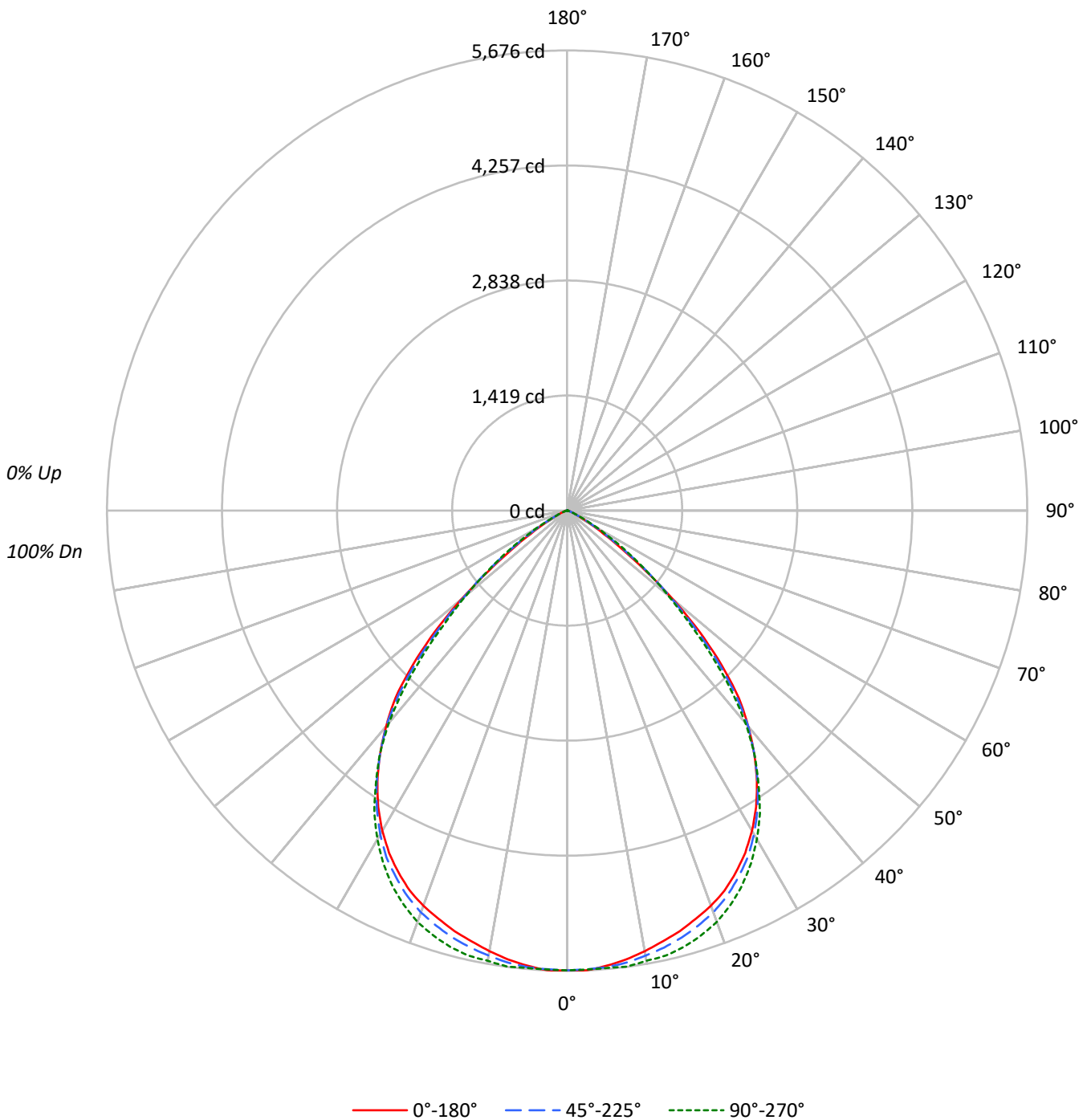
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36			

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.3	5.4
10°-20°	1540.7	15.5
20°-30°	2298.9	23.1
30°-40°	2546.0	25.6
40°-50°	1985.5	20.0
50°-60°	832.2	8.4
60°-70°	166.7	1.7
70°-80°	26.5	0.3
80°-90°	4.2	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°	4376.8	44.0
0°-40°	6922.9	69.7
0°-60°	9740.6	98.0
0°-90°	9938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5671	5671	5671	5671	5671	
5°	5636	5640	5652	5667	5664	534
15°	5370	5394	5454	5535	5572	1515
25°	4925	4944	4993	5070	5104	2263
35°	4079	4073	4098	4117	4113	2535
45°	2697	2685	2615	2535	2502	2040
55°	813	844	899	934	952	792
65°	127	127	128	138	134	153
75°	37	34	34	26	24	30
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5671.4	5671.4	5671.4	5671.4	5671.4
2.5°	5675.7	5664.9	5662.7	5669.2	5664.9
5°	5635.6	5639.9	5651.9	5667.1	5663.8
7.5°	5583.5	5591.1	5623.7	5662.7	5672.5
10°	5518.4	5534.7	5573.7	5618.2	5638.9
12.5°	5442.4	5464.1	5520.6	5584.6	5622.6
15°	5369.7	5393.6	5454.4	5534.7	5571.6
17.5°	5278.6	5310.0	5369.7	5456.5	5494.5
20°	5187.4	5215.6	5273.1	5357.8	5400.1
22.5°	5074.5	5095.2	5149.4	5221.0	5264.4
25°	4924.8	4944.3	4993.1	5070.2	5103.8
27.5°	4757.6	4780.4	4824.9	4878.1	4908.5
30°	4560.1	4578.6	4610.1	4657.8	4680.6
32.5°	4337.7	4338.7	4370.2	4406.0	4426.7
35°	4079.4	4072.9	4097.8	4117.4	4113.0
37.5°	3794.0	3795.0	3792.9	3795.0	3799.4
40°	3474.9	3459.7	3471.6	3444.5	3425.0
42.5°	3136.3	3121.1	3074.5	3014.8	2982.2
45°	2696.8	2684.9	2615.4	2535.1	2502.5
47.5°	2213.9	2177.0	2120.5	2052.2	2020.7
50°	1702.7	1698.4	1664.7	1648.5	1620.2
52.5°	1217.6	1217.6	1258.9	1252.4	1251.3
55°	812.8	844.3	898.6	934.4	951.7
57.5°	529.6	558.9	604.5	642.5	659.8
60°	342.9	357.0	389.6	418.9	439.5
62.5°	212.7	224.6	242.0	260.5	268.1
65°	127.0	127.0	128.1	137.8	133.5
67.5°	85.7	89.0	84.6	84.6	95.5
70°	55.3	52.1	51.0	49.9	49.9
72.5°	35.8	30.4	32.6	34.7	30.4
75°	36.9	33.6	33.6	26.0	23.9
77.5°	13.0	14.1	9.8	7.6	6.5
80°	1.1	4.3	4.3	1.1	0.0
82.5°	13.0	11.9	9.8	15.2	9.8
85°	1.1	2.2	1.1	0.0	5.4
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)