

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: P247618

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809730 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

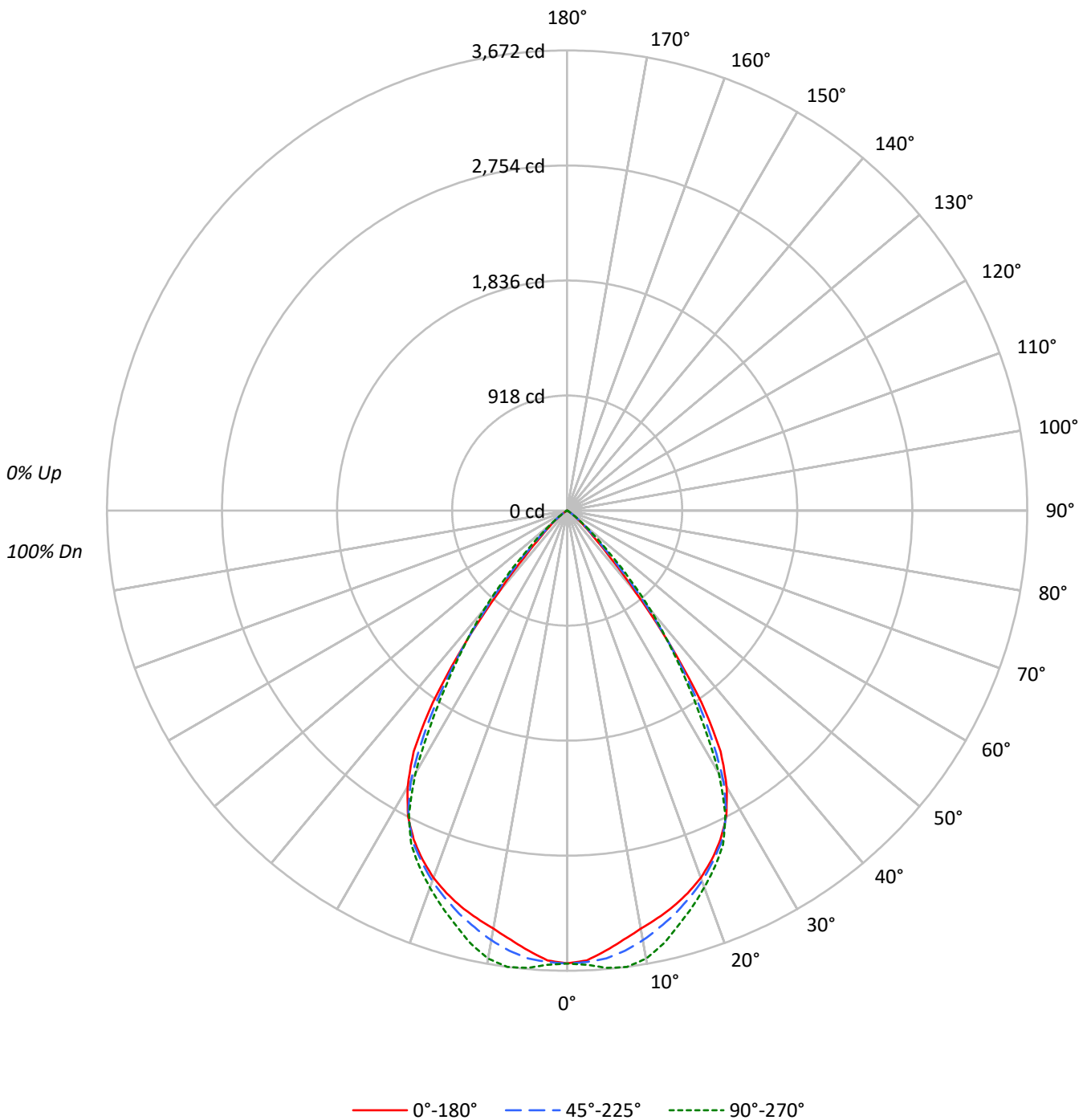
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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°	339.7	8.3
10°-20°	940.0	23.1
20°-30°	1324.5	32.5
30°-40°	1071.6	26.3
40°-50°	340.2	8.3
50°-60°	54.4	1.3
60°-70°	3.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2604.2	63.9
0°-40°	3675.7	90.2
0°-60°	4070.3	99.9
0°-90°	4074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3614	3614	3614	3614	3614	
5°	3526	3542	3588	3640	3663	332
15°	3272	3284	3330	3393	3428	921
25°	2896	2901	2917	2933	2942	1322
35°	1866	1815	1739	1676	1652	1107
45°	303	327	390	445	472	282
55°	48	49	52	54	53	50
65°	2	2	2	2	2	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3613.6	3613.6	3613.6	3613.6	3613.6
2.5°	3592.9	3596.6	3605.5	3622.4	3627.6
5°	3525.9	3542.1	3587.8	3640.1	3662.9
7.5°	3453.7	3475.1	3542.1	3630.5	3671.8
10°	3387.4	3410.2	3481.7	3576.0	3629.8
12.5°	3331.4	3349.1	3407.3	3492.0	3542.1
15°	3271.7	3284.2	3329.9	3393.3	3427.9
17.5°	3200.3	3211.3	3241.5	3290.9	3317.4
20°	3117.8	3120.7	3146.5	3178.2	3201.0
22.5°	3015.4	3018.3	3033.0	3063.2	3078.7
25°	2896.0	2901.2	2916.6	2932.8	2942.4
27.5°	2749.4	2751.6	2744.2	2731.0	2733.9
30°	2546.1	2538.0	2496.7	2440.0	2423.0
32.5°	2279.4	2225.6	2136.5	2056.9	2024.5
35°	1866.1	1815.3	1738.6	1676.0	1651.7
37.5°	1340.8	1344.5	1339.3	1325.3	1328.3
40°	848.0	881.8	962.1	1014.4	1030.7
42.5°	509.1	545.9	634.3	705.0	727.9
45°	302.8	327.1	389.7	445.0	472.2
47.5°	194.5	206.3	237.2	269.6	285.1
50°	128.9	134.8	147.3	162.1	168.7
52.5°	82.5	84.7	90.6	95.8	100.9
55°	47.9	48.6	51.6	53.8	53.0
57.5°	25.0	25.0	25.0	25.0	25.0
60°	14.0	13.3	13.3	13.3	12.5
62.5°	6.6	6.6	6.6	5.9	5.9
65°	1.5	2.2	2.2	2.2	2.2
67.5°	0.0	0.0	0.0	0.0	0.7
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)