

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: P245764

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBSOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40840 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4330.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

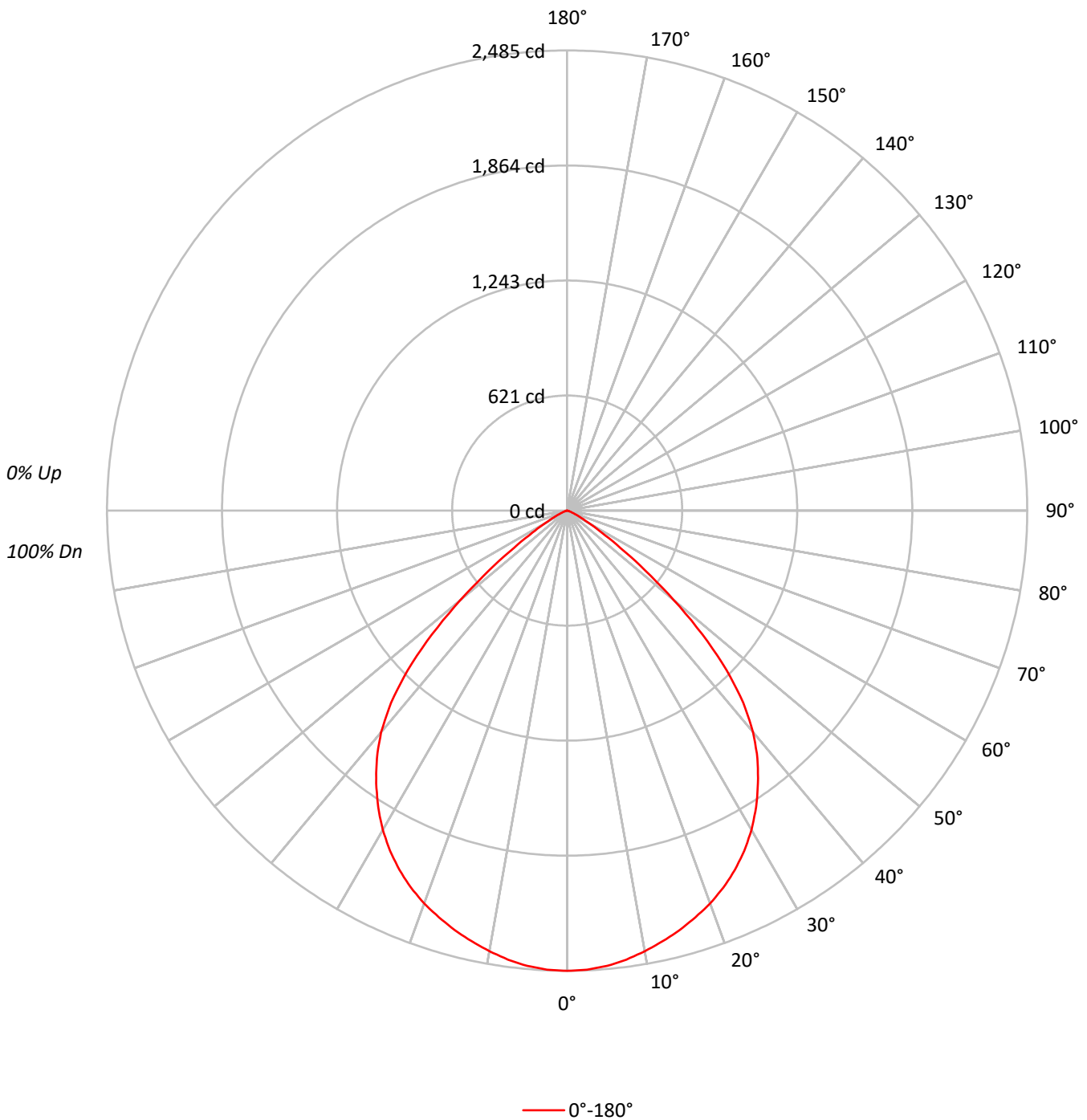
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	76641
5°	76410
10°	75656
15°	74878
20°	74094
25°	72883
30°	70889
35°	67658
40°	62905
45°	53116
50°	36061
55°	18838
60°	8455
65°	4123
70°	1659
75°	1013
80°	746
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	5.4
10°-20°	661.6	15.3
20°-30°	984.9	22.7
30°-40°	1119.5	25.9
40°-50°	915.5	21.1
50°-60°	341.2	7.9
60°-70°	62.4	1.4
70°-80°	9.7	0.2
80°-90°	1.3	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°	1880.4	43.4
0°-40°	2999.9	69.3
0°-60°	4256.6	98.3
0°-90°	4330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2485	
5°	2468	234
15°	2346	662
25°	2142	985
35°	1797	1120
45°	1218	915
55°	350	341
65°	56	62
75°	8	10
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2485.4
2.5°	2481.2
5°	2468.5
7.5°	2445.8
10°	2416.2
12.5°	2382.3
15°	2345.5
17.5°	2303.1
20°	2257.9
22.5°	2204.2
25°	2142.1
27.5°	2071.4
30°	1990.9
32.5°	1899.0
35°	1797.3
37.5°	1688.5
40°	1562.7
42.5°	1407.3
45°	1218.0
47.5°	990.5
50°	751.7
52.5°	529.9
55°	350.4
57.5°	220.4
60°	137.1
62.5°	87.6
65°	56.5
67.5°	32.5
70°	18.4
72.5°	11.3
75°	8.5
77.5°	5.7
80°	4.2
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0

(END OF REPORT)