

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: P245770

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBSOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245770  
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 EC8B40850 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4414.9 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

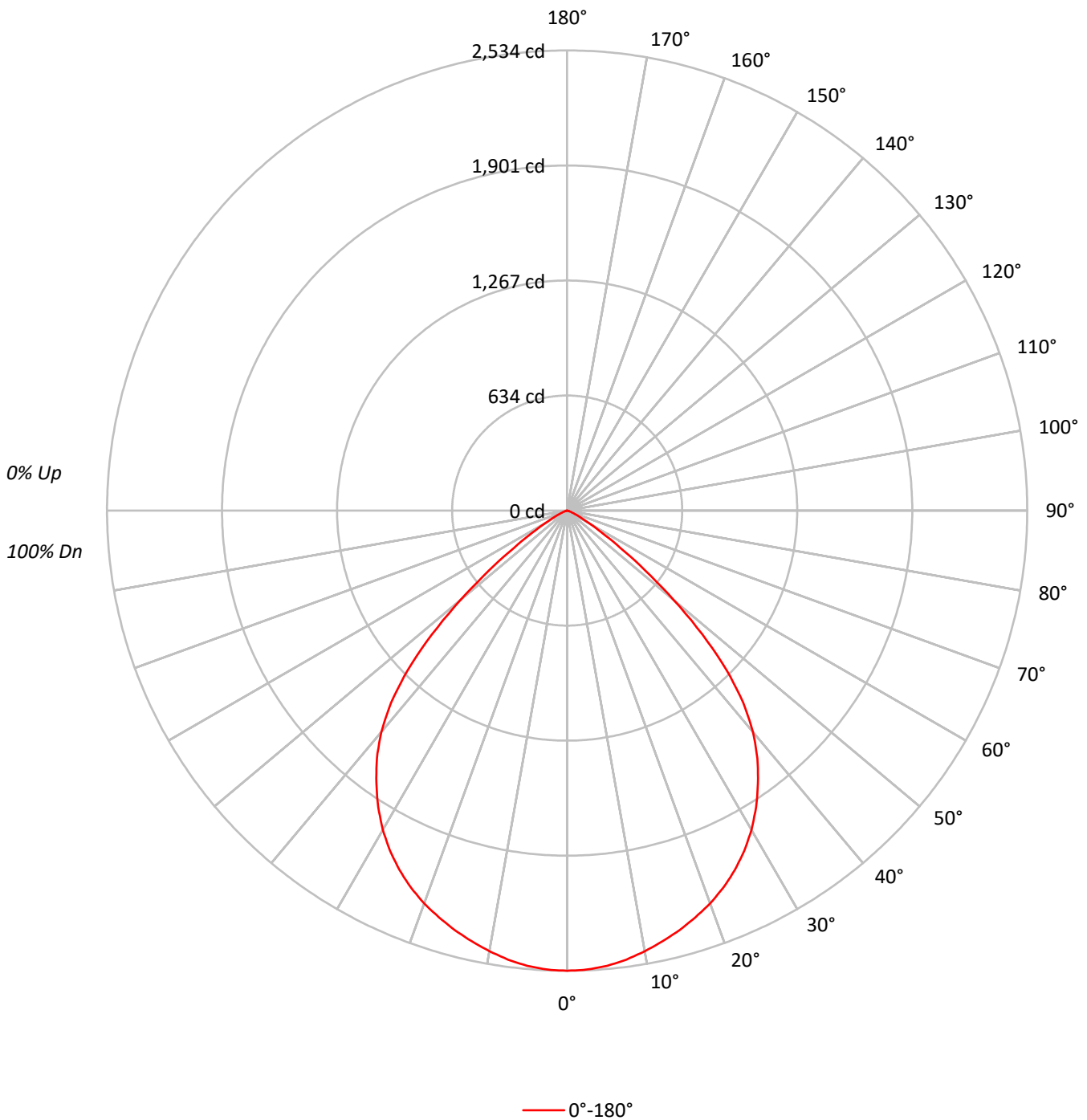
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	78145
5°	77908
10°	77140
15°	76350
20°	75547
25°	74312
30°	72282
35°	68987
40°	64141
45°	54158
50°	36771
55°	19209
60°	8616
65°	4203
70°	1686
75°	1025
80°	764
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	5.4
10°-20°	674.6	15.3
20°-30°	1004.2	22.7
30°-40°	1141.5	25.9
40°-50°	933.4	21.1
50°-60°	348.0	7.9
60°-70°	63.6	1.4
70°-80°	9.8	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°	1917.3	43.4
0°-40°	3058.8	69.3
0°-60°	4340.2	98.3
0°-90°	4414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2534	
5°	2517	239
15°	2392	675
25°	2184	1004
35°	1833	1142
45°	1242	933
55°	357	348
65°	58	64
75°	9	10
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2534.2
2.5°	2529.9
5°	2516.9
7.5°	2493.9
10°	2463.6
12.5°	2429.0
15°	2391.6
17.5°	2348.4
20°	2302.2
22.5°	2247.5
25°	2184.1
27.5°	2112.1
30°	2030.0
32.5°	1936.3
35°	1832.6
37.5°	1721.6
40°	1593.4
42.5°	1434.9
45°	1241.9
47.5°	1009.9
50°	766.5
52.5°	540.3
55°	357.3
57.5°	224.8
60°	139.7
62.5°	89.3
65°	57.6
67.5°	33.1
70°	18.7
72.5°	11.5
75°	8.6
77.5°	5.8
80°	4.3
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0

(END OF REPORT)