

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: P247222

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247222  
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: LSR8B80D010 EC8B80940 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8157.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

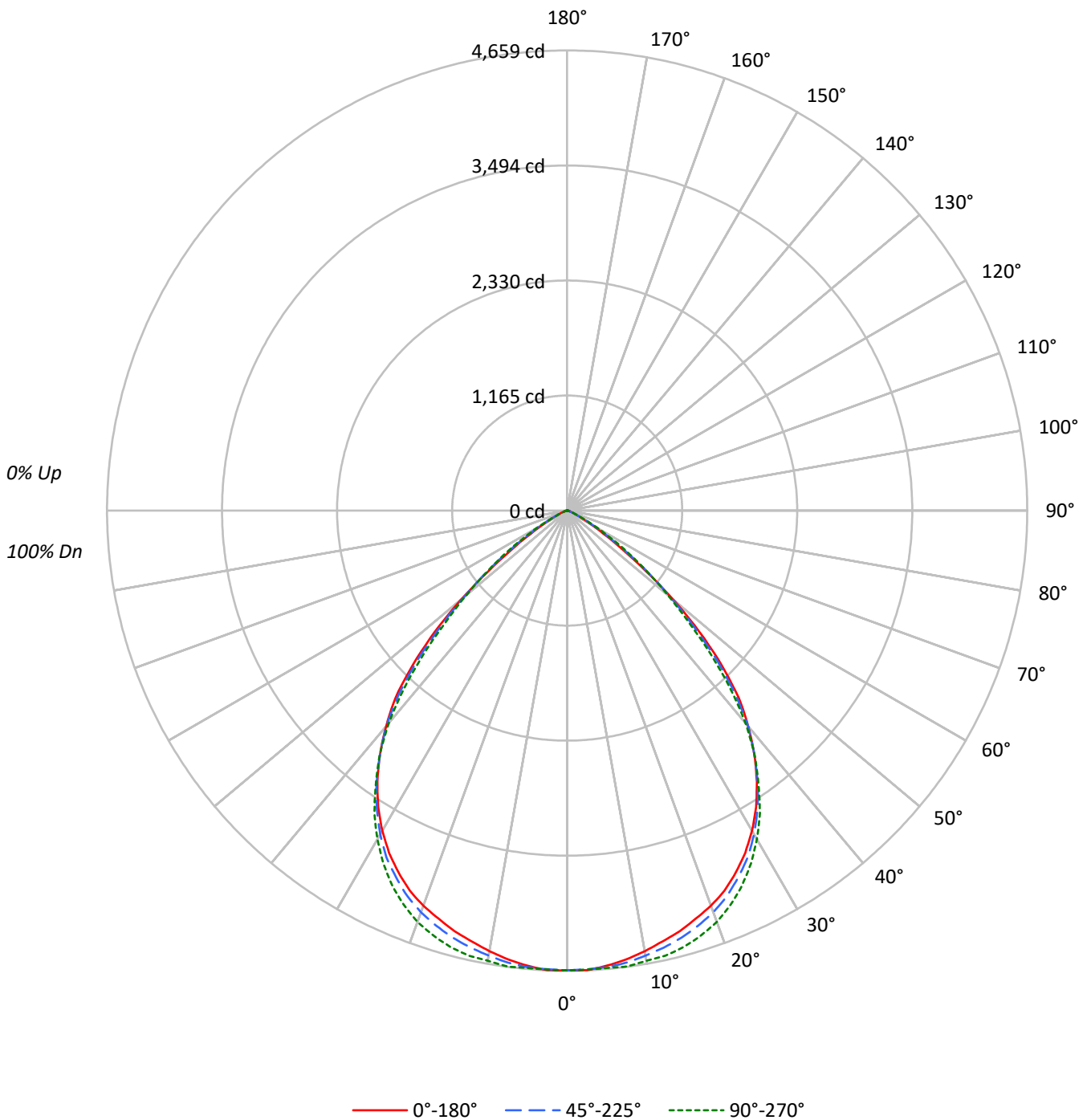
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	143543	143543	143543
5°	143181	143596	143899
10°	141825	143249	144921
15°	140702	142921	145992
20°	139721	142028	145447
25°	137532	139441	142534
30°	133272	134732	136794
35°	126044	126612	127083
40°	114812	114704	113162
45°	96529	93616	89578
50°	67047	65550	63799
55°	35870	39649	41998
60°	17361	19723	22251
65°	7603	7669	7997
70°	4093	3778	3697
75°	3610	3288	2335
80°	160	639	0
85°	318	318	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.0	5.4
10°-20°	1264.6	15.5
20°-30°	1886.9	23.1
30°-40°	2089.7	25.6
40°-50°	1629.7	20.0
50°-60°	683.1	8.4
60°-70°	136.8	1.7
70°-80°	21.8	0.3
80°-90°	3.4	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°	3592.5	44.0
0°-40°	5682.2	69.7
0°-60°	7995.0	98.0
0°-90°	8157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4655	4655	4655	4655	4655	
5°	4626	4629	4639	4652	4649	438
15°	4407	4427	4477	4543	4573	1243
25°	4042	4058	4098	4162	4189	1857
35°	3348	3343	3363	3380	3376	2081
45°	2214	2204	2147	2081	2054	1675
55°	667	693	738	767	781	650
65°	104	104	105	113	110	126
75°	30	28	28	21	20	25
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4655.0	4655.0	4655.0	4655.0	4655.0
2.5°	4658.6	4649.7	4647.9	4653.2	4649.7
5°	4625.6	4629.2	4639.0	4651.5	4648.8
7.5°	4582.9	4589.1	4615.8	4647.9	4655.9
10°	4529.4	4542.8	4574.9	4611.4	4628.3
12.5°	4467.1	4484.9	4531.2	4583.8	4614.9
15°	4407.4	4427.0	4476.9	4542.8	4573.1
17.5°	4332.6	4358.4	4407.4	4478.7	4509.8
20°	4257.8	4280.9	4328.1	4397.6	4432.3
22.5°	4165.1	4182.0	4226.6	4285.4	4321.0
25°	4042.2	4058.2	4098.3	4161.6	4189.2
27.5°	3905.0	3923.7	3960.2	4003.9	4028.8
30°	3742.9	3758.0	3783.9	3823.1	3841.8
32.5°	3560.3	3561.2	3587.0	3616.4	3633.3
35°	3348.3	3343.0	3363.4	3379.5	3375.9
37.5°	3114.0	3114.9	3113.2	3114.9	3118.5
40°	2852.2	2839.7	2849.5	2827.2	2811.2
42.5°	2574.3	2561.8	2523.5	2474.5	2447.8
45°	2213.5	2203.7	2146.7	2080.8	2054.1
47.5°	1817.1	1786.8	1740.5	1684.4	1658.6
50°	1397.6	1394.0	1366.4	1353.0	1329.9
52.5°	999.4	999.4	1033.3	1027.9	1027.0
55°	667.2	693.0	737.5	766.9	781.2
57.5°	434.7	458.7	496.1	527.3	541.6
60°	281.5	293.1	319.8	343.8	360.8
62.5°	174.6	184.4	198.6	213.8	220.0
65°	104.2	104.2	105.1	113.1	109.6
67.5°	70.4	73.0	69.5	69.5	78.4
70°	45.4	42.8	41.9	41.0	41.0
72.5°	29.4	24.9	26.7	28.5	24.9
75°	30.3	27.6	27.6	21.4	19.6
77.5°	10.7	11.6	8.0	6.2	5.3
80°	0.9	3.6	3.6	0.9	0.0
82.5°	10.7	9.8	8.0	12.5	8.0
85°	0.9	1.8	0.9	0.0	4.5
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)