

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: P247510

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6761.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

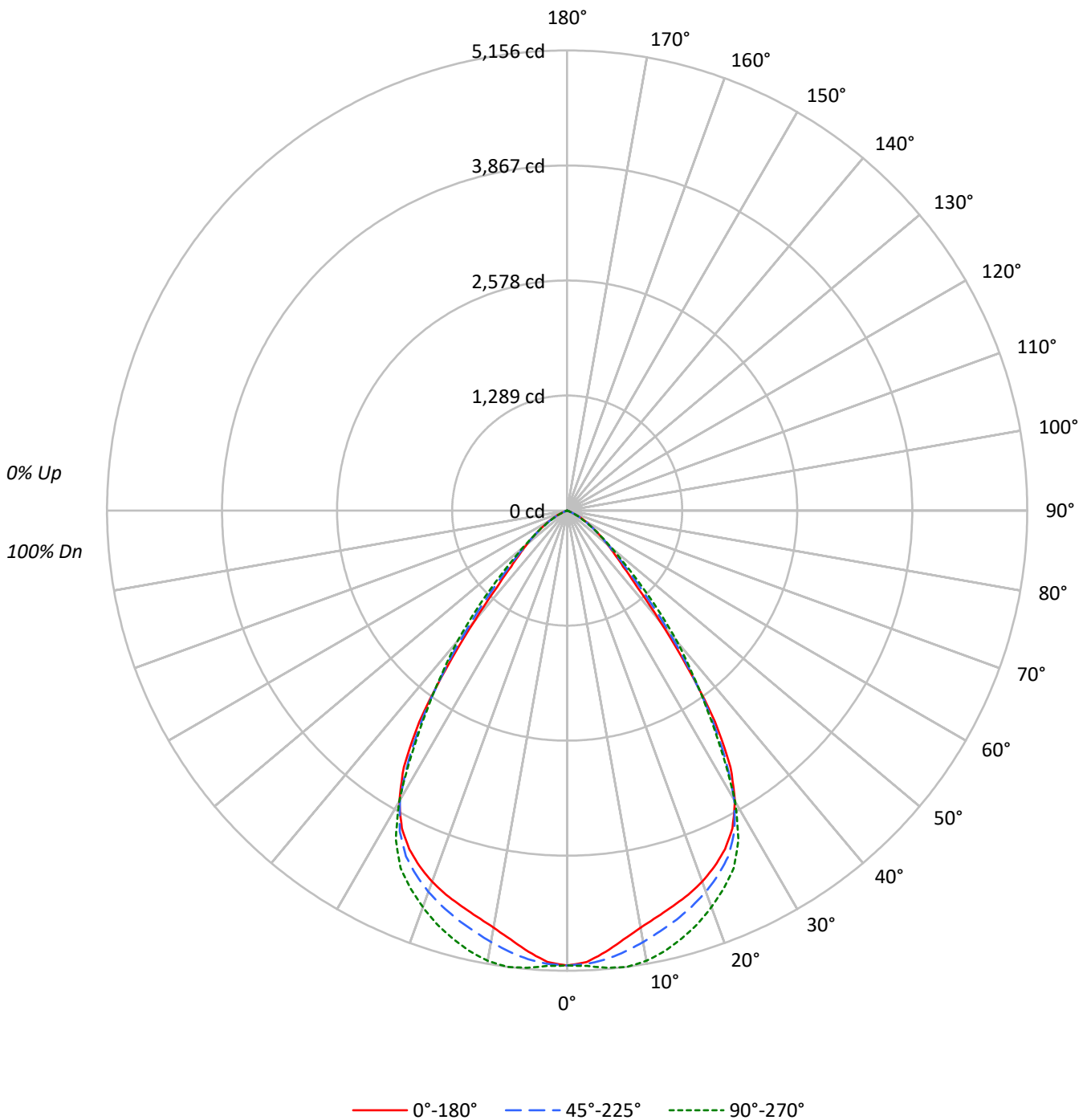
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	157170	157170	157170
5°	153610	156201	159178
10°	148525	153711	160405
15°	146423	151429	158449
20°	145191	149169	155157
25°	142391	145419	150298
30°	133853	133347	133981
35°	108758	105103	103495
40°	64567	71165	77078
45°	38646	43500	49405
50°	28155	28880	31019
55°	20397	19677	20112
60°	13839	12797	12304
65°	6954	6436	6107
70°	1929	1686	1524
75°	739	536	536
80°	320	320	160
85°	318	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.9	7.1
10°-20°	1342.0	19.8
20°-30°	1950.6	28.9
30°-40°	1724.9	25.5
40°-50°	820.6	12.1
50°-60°	341.8	5.1
60°-70°	95.5	1.4
70°-80°	7.2	0.1
80°-90°	0.5	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°	3770.5	55.8
0°-40°	5495.4	81.3
0°-60°	6657.8	98.5
0°-90°	6761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5097	5097	5097	5097	5097	
5°	4962	4987	5046	5113	5142	467
15°	4587	4628	4743	4888	4963	1295
25°	4185	4204	4274	4368	4417	1913
35°	2889	2848	2792	2749	2749	1729
45°	886	917	998	1090	1133	738
55°	379	375	366	366	374	345
65°	95	94	88	85	84	104
75°	6	5	4	4	4	8
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5096.9	5096.9	5096.9	5096.9	5096.9
2.5°	5063.1	5067.5	5084.5	5100.5	5107.6
5°	4962.5	4987.4	5046.2	5113.0	5142.4
7.5°	4847.6	4885.0	4983.8	5101.4	5155.7
10°	4743.4	4790.6	4909.0	5054.2	5122.8
12.5°	4661.4	4705.1	4826.2	4977.6	5055.1
15°	4586.6	4628.5	4743.4	4887.6	4963.3
17.5°	4511.8	4551.9	4650.7	4785.2	4858.3
20°	4424.5	4456.6	4545.7	4664.1	4728.2
22.5°	4315.9	4345.3	4420.1	4525.2	4583.1
25°	4185.0	4203.7	4274.0	4368.4	4417.4
27.5°	4011.3	4015.7	4058.5	4119.9	4156.5
30°	3759.2	3756.6	3745.0	3742.3	3762.8
32.5°	3406.6	3367.4	3299.7	3267.6	3242.7
35°	2889.1	2848.2	2792.0	2749.3	2749.3
37.5°	2208.7	2244.3	2266.6	2293.3	2306.7
40°	1604.0	1656.5	1767.9	1883.6	1914.8
42.5°	1165.8	1214.8	1335.0	1464.2	1501.6
45°	886.2	917.3	997.5	1090.1	1132.9
47.5°	716.0	725.0	765.0	820.2	840.7
50°	586.9	589.6	602.0	630.5	646.6
52.5°	474.7	472.9	476.5	484.5	491.6
55°	379.4	374.9	366.0	366.0	374.1
57.5°	293.0	286.8	277.0	272.5	269.9
60°	224.4	218.2	207.5	200.4	199.5
62.5°	161.2	155.9	145.2	138.9	137.2
65°	95.3	93.5	88.2	84.6	83.7
67.5°	44.5	42.7	38.3	36.5	35.6
70°	21.4	20.5	18.7	17.8	16.9
72.5°	10.7	10.7	8.9	8.9	8.9
75°	6.2	5.3	4.5	4.5	4.5
77.5°	3.6	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	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)