

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: P247491

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247491  
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: LSR8B90D010 EC8B90840 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8494.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

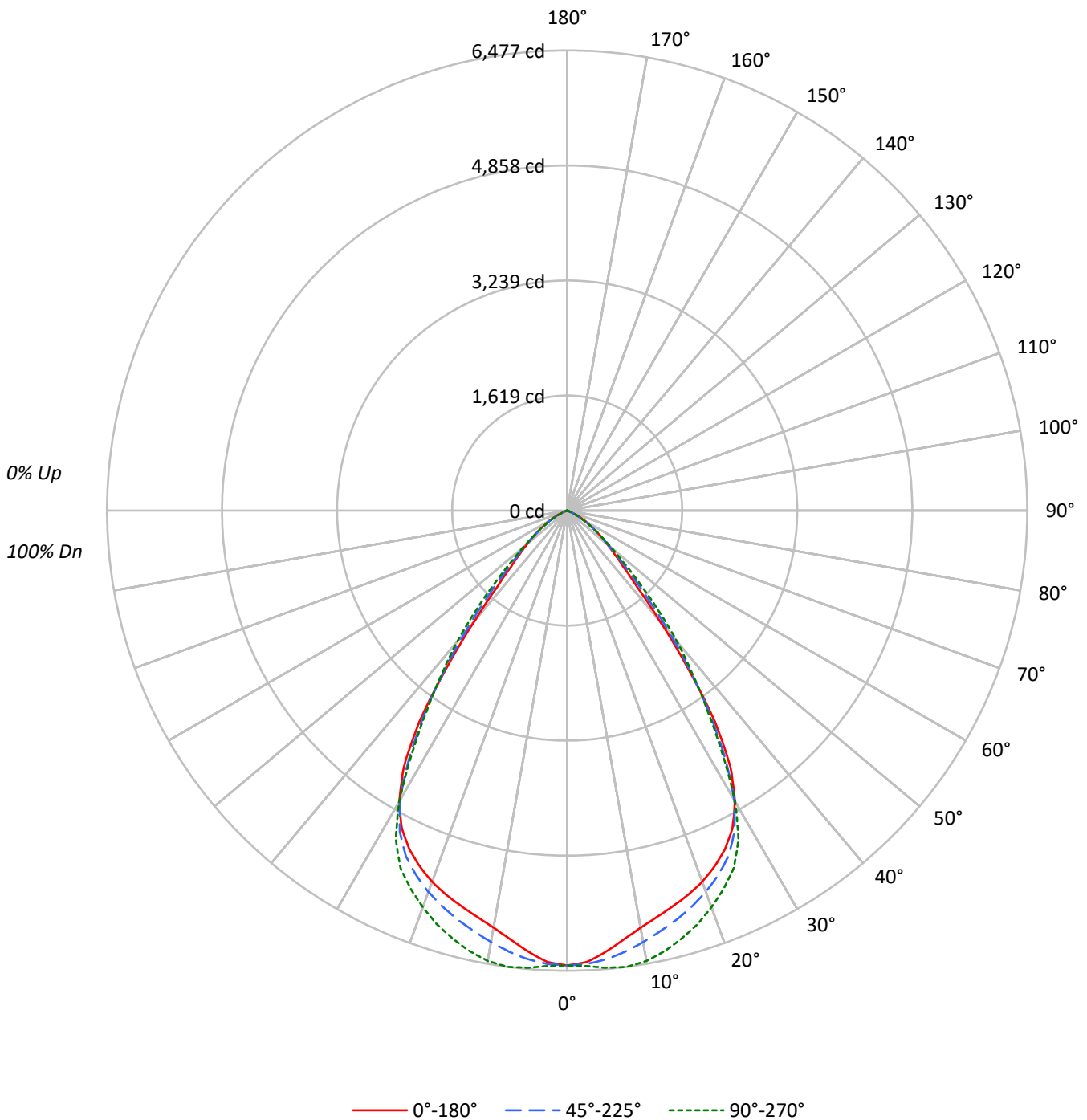
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	197457	197457	197457
5°	192980	196237	199979
10°	186595	193111	201518
15°	183956	190242	199066
20°	182407	187402	194930
25°	178889	182692	188824
30°	168163	167526	168324
35°	136637	132045	130023
40°	81116	89404	96835
45°	48550	54651	62065
50°	35370	36287	38968
55°	25623	24725	25263
60°	17392	16078	15455
65°	8734	8085	7676
70°	2425	2119	1920
75°	929	667	667
80°	391	391	195
85°	389	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.4	7.1
10°-20°	1686.0	19.8
20°-30°	2450.5	28.9
30°-40°	2167.1	25.5
40°-50°	1030.9	12.1
50°-60°	429.4	5.1
60°-70°	120.0	1.4
70°-80°	9.1	0.1
80°-90°	0.7	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°	4736.9	55.8
0°-40°	6904.0	81.3
0°-60°	8364.3	98.5
0°-90°	8494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8494.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6403	6403	6403	6403	6403	
5°	6234	6266	6340	6424	6460	586
15°	5762	5815	5959	6140	6236	1628
25°	5258	5281	5370	5488	5550	2403
35°	3630	3578	3508	3454	3454	2172
45°	1113	1152	1253	1370	1423	927
55°	477	471	460	460	470	434
65°	120	118	111	106	105	130
75°	8	7	6	6	6	11
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°	6403.4	6403.4	6403.4	6403.4	6403.4
2.5°	6360.9	6366.5	6387.7	6407.9	6416.8
5°	6234.4	6265.8	6339.6	6423.5	6460.5
7.5°	6090.1	6137.1	6261.3	6409.0	6477.2
10°	5959.2	6018.5	6167.3	6349.7	6435.8
12.5°	5856.3	5911.1	6063.3	6253.5	6350.8
15°	5762.3	5814.9	5959.2	6140.5	6235.6
17.5°	5668.3	5718.6	5842.8	6011.8	6103.5
20°	5558.6	5598.9	5710.8	5859.6	5940.2
22.5°	5422.1	5459.1	5553.0	5685.1	5757.8
25°	5257.7	5281.2	5369.5	5488.1	5549.7
27.5°	5039.5	5045.1	5098.8	5176.0	5221.9
30°	4722.8	4719.5	4704.9	4701.6	4727.3
32.5°	4279.7	4230.5	4145.5	4105.2	4073.9
35°	3629.7	3578.2	3507.7	3454.0	3454.0
37.5°	2774.8	2819.6	2847.6	2881.1	2897.9
40°	2015.1	2081.1	2221.0	2366.4	2405.6
42.5°	1464.6	1526.2	1677.2	1839.5	1886.4
45°	1113.3	1152.5	1253.2	1369.5	1423.2
47.5°	899.6	910.8	961.1	1030.5	1056.2
50°	737.3	740.7	756.4	792.2	812.3
52.5°	596.4	594.1	598.6	608.7	617.6
55°	476.6	471.1	459.9	459.9	469.9
57.5°	368.1	360.3	348.0	342.4	339.0
60°	282.0	274.1	260.7	251.7	250.6
62.5°	202.5	195.8	182.4	174.5	172.3
65°	119.7	117.5	110.8	106.3	105.2
67.5°	55.9	53.7	48.1	45.9	44.8
70°	26.9	25.7	23.5	22.4	21.3
72.5°	13.4	13.4	11.2	11.2	11.2
75°	7.8	6.7	5.6	5.6	5.6
77.5°	4.5	3.4	3.4	3.4	3.4
80°	2.2	2.2	2.2	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	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)