

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: P247583

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90835 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6228.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

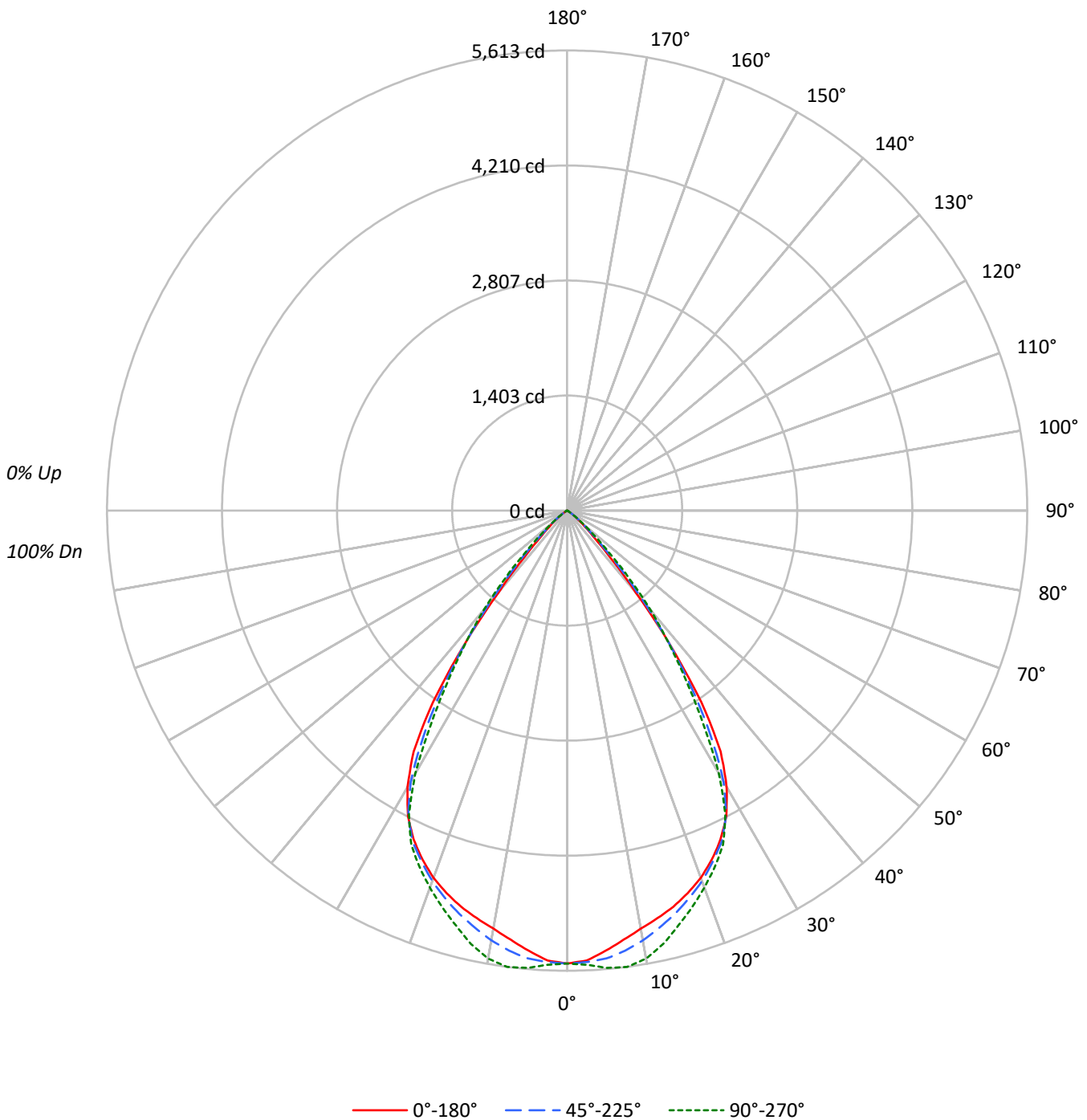
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

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

	0°	45°	90°
0°	170343	170343	170343
5°	166846	169774	173331
10°	162146	166658	173747
15°	159668	162510	167292
20°	156404	157845	160578
25°	150632	151703	153044
30°	138588	135904	131891
35°	107388	100054	95052
40°	52181	59206	63424
45°	20187	25982	31481
50°	9455	10803	12372
55°	3935	4236	4360
60°	1320	1252	1178
65°	168	248	248
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.3	8.3
10°-20°	1437.0	23.1
20°-30°	2024.8	32.5
30°-40°	1638.1	26.3
40°-50°	520.0	8.3
50°-60°	83.1	1.3
60°-70°	5.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3981.0	63.9
0°-40°	5619.2	90.2
0°-60°	6222.4	99.9
0°-90°	6228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5524	5524	5524	5524	5524	
5°	5390	5415	5485	5565	5600	508
15°	5002	5021	5090	5187	5240	1409
25°	4427	4435	4459	4484	4498	2022
35°	2853	2775	2658	2562	2525	1692
45°	463	500	596	680	722	431
55°	73	74	79	82	81	76
65°	2	3	3	3	3	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5524.1	5524.1	5524.1	5524.1	5524.1
2.5°	5492.6	5498.2	5511.7	5537.6	5545.5
5°	5390.1	5414.9	5484.7	5564.7	5599.6
7.5°	5279.7	5312.4	5414.9	5550.0	5613.1
10°	5178.4	5213.3	5322.5	5466.7	5548.9
12.5°	5092.8	5119.8	5208.8	5338.3	5414.9
15°	5001.5	5020.7	5090.5	5187.4	5240.3
17.5°	4892.3	4909.2	4955.4	5030.8	5071.4
20°	4766.2	4770.7	4810.1	4858.5	4893.4
22.5°	4609.6	4614.1	4636.7	4682.8	4706.5
25°	4427.2	4435.1	4458.7	4483.5	4498.1
27.5°	4203.1	4206.4	4195.2	4174.9	4179.4
30°	3892.2	3879.8	3816.8	3730.0	3704.1
32.5°	3484.5	3402.3	3266.0	3144.4	3094.9
35°	2852.7	2775.0	2657.9	2562.2	2525.0
37.5°	2049.7	2055.4	2047.5	2026.1	2030.6
40°	1296.3	1348.1	1470.8	1550.8	1575.6
42.5°	778.2	834.5	969.7	1077.8	1112.7
45°	462.9	500.0	595.8	680.2	721.9
47.5°	297.3	315.3	362.6	412.2	435.8
50°	197.1	206.1	225.2	247.8	257.9
52.5°	126.1	129.5	138.5	146.4	154.3
55°	73.2	74.3	78.8	82.2	81.1
57.5°	38.3	38.3	38.3	38.3	38.3
60°	21.4	20.3	20.3	20.3	19.1
62.5°	10.1	10.1	10.1	9.0	9.0
65°	2.3	3.4	3.4	3.4	3.4
67.5°	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)