

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: P247432

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100827 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11377.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

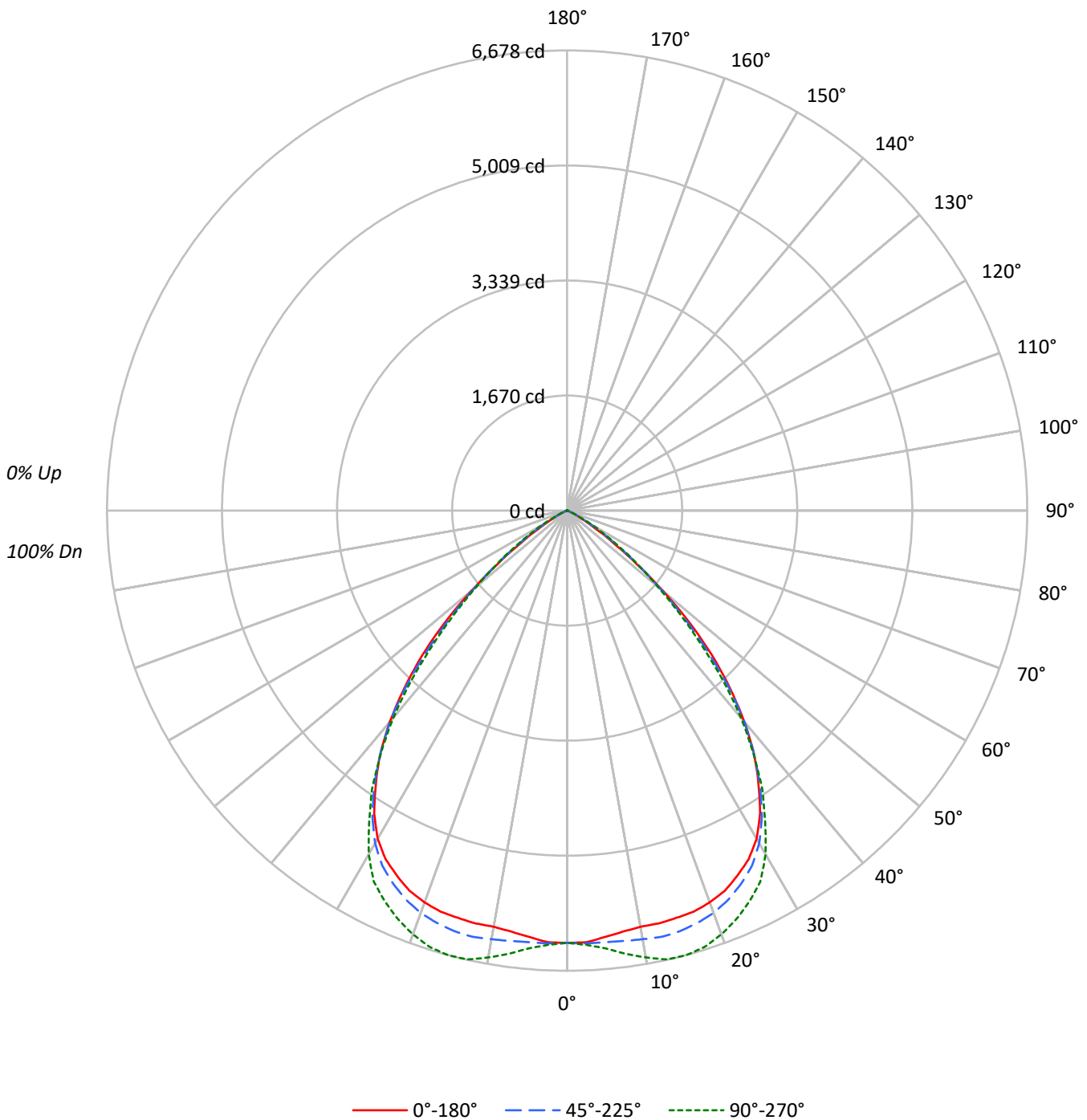
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	193424	193424	193424
5°	192349	194652	197370
10°	192018	197782	206180
15°	195382	201764	213205
20°	198556	203875	214757
25°	198902	203297	212919
30°	195865	198429	205027
35°	182292	183485	185778
40°	161116	160919	158025
45°	129781	124940	120104
50°	87143	84864	82000
55°	44240	48041	50993
60°	18119	22184	25866
65°	6764	7209	8449
70°	442	442	334
75°	870	1454	1882
80°	213	0	0
85°	849	0	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.3	5.3
10°-20°	1795.1	15.8
20°-30°	2762.3	24.3
30°-40°	3025.4	26.6
40°-50°	2199.8	19.3
50°-60°	846.2	7.4
60°-70°	132.5	1.2
70°-80°	9.5	0.1
80°-90°	3.8	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°	5159.7	45.4
0°-40°	8185.1	71.9
0°-60°	11231.1	98.7
0°-90°	11377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6273	6273	6273	6273	6273	
5°	6214	6246	6288	6348	6376	591
15°	6120	6168	6320	6554	6678	1732
25°	5846	5881	5975	6152	6258	2689
35°	4842	4842	4874	4905	4935	3007
45°	2976	2946	2865	2792	2754	2262
55°	823	845	894	923	948	804
65°	93	96	99	112	116	113
75°	7	16	12	16	16	9
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6272.6	6272.6	6272.6	6272.6	6272.6
2.5°	6271.3	6281.1	6287.2	6300.6	6306.7
5°	6214.0	6245.7	6288.4	6348.2	6376.2
7.5°	6164.1	6207.9	6299.4	6428.6	6485.9
10°	6132.4	6179.9	6316.5	6492.0	6584.7
12.5°	6136.0	6188.4	6336.0	6546.9	6671.2
15°	6120.2	6167.7	6320.1	6554.2	6678.5
17.5°	6101.9	6140.9	6276.2	6505.4	6639.5
20°	6050.7	6083.6	6212.8	6420.1	6544.4
22.5°	5973.9	6004.3	6111.6	6304.3	6418.9
25°	5845.9	5881.2	5975.1	6151.9	6257.9
27.5°	5703.2	5723.9	5810.5	5971.4	6072.6
30°	5500.8	5508.2	5572.8	5697.1	5758.1
32.5°	5211.9	5210.7	5259.4	5321.6	5344.8
35°	4842.5	4842.5	4874.2	4904.7	4935.1
37.5°	4458.5	4453.6	4457.2	4464.6	4439.0
40°	4002.5	3992.7	3997.6	3953.7	3925.7
42.5°	3502.6	3511.2	3462.4	3384.4	3355.1
45°	2976.0	2945.5	2865.0	2791.9	2754.1
47.5°	2416.4	2368.8	2292.0	2216.4	2210.3
50°	1816.5	1819.0	1769.0	1726.3	1709.3
52.5°	1260.6	1274.0	1299.6	1304.5	1310.6
55°	822.9	844.9	893.6	922.9	948.5
57.5°	503.5	543.7	585.2	640.1	644.9
60°	293.8	313.3	359.7	401.1	419.4
62.5°	165.8	184.1	193.8	218.2	224.3
65°	92.7	96.3	98.8	112.2	115.8
67.5°	56.1	58.5	61.0	59.7	62.2
70°	4.9	11.0	4.9	6.1	3.7
72.5°	20.7	13.4	14.6	11.0	7.3
75°	7.3	15.8	12.2	15.8	15.8
77.5°	4.9	3.7	6.1	7.3	6.1
80°	1.2	0.0	0.0	0.0	0.0
82.5°	11.0	9.8	6.1	9.8	3.7
85°	2.4	0.0	0.0	0.0	2.4
87.5°	7.3	3.7	3.7	8.5	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)