

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: P247686

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80850 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8768.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

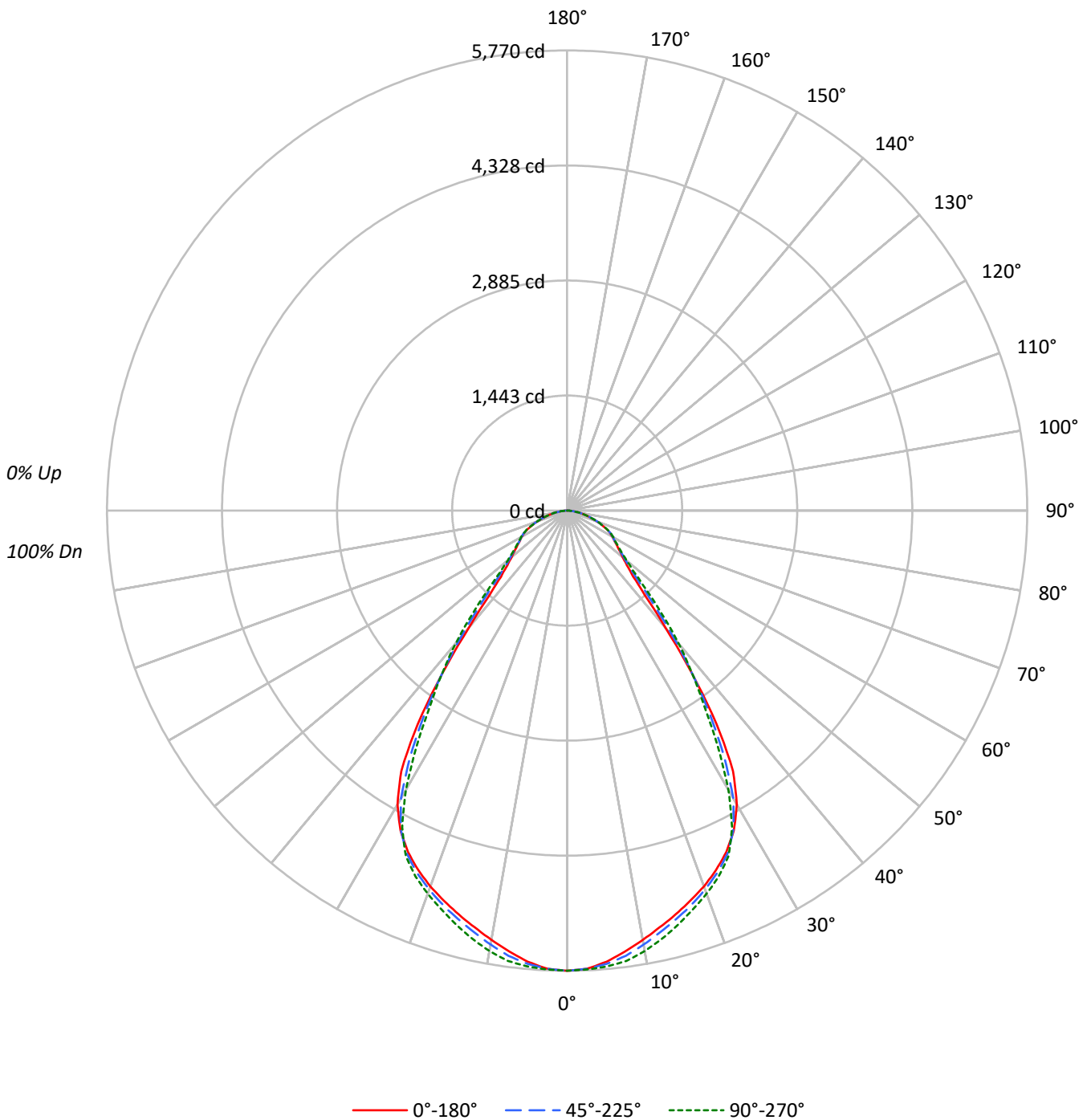
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	177926	177926	177926
5°	175751	176596	177599
10°	171155	173055	175595
15°	167416	169195	171621
20°	164546	165941	167768
25°	160679	161679	162748
30°	151489	148245	143880
35°	122980	117450	112951
40°	76905	83471	87508
45°	51245	56060	60830
50°	43689	44998	46553
55°	40843	41391	41988
60°	40482	40735	41105
65°	39467	39912	40211
70°	35802	36073	36352
75°	31263	31620	31740
80°	26619	26619	27347
85°	21511	21511	21511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.1	6.1
10°-20°	1495.9	17.1
20°-30°	2162.6	24.7
30°-40°	1935.4	22.1
40°-50°	1047.4	11.9
50°-60°	698.1	8.0
60°-70°	534.6	6.1
70°-80°	283.3	3.2
80°-90°	71.7	0.8
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°	4197.6	47.9
0°-40°	6133.0	69.9
0°-60°	7878.4	89.9
0°-90°	8768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5770	5770	5770	5770	5770	
5°	5678	5681	5705	5727	5738	535
15°	5244	5254	5300	5352	5376	1480
25°	4722	4734	4752	4774	4783	2161
35°	3267	3233	3120	3030	3000	1978
45°	1175	1210	1286	1366	1395	967
55°	760	763	770	778	781	687
65°	541	543	547	551	551	530
75°	262	262	265	266	266	282
85°	61	61	61	62	61	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5770.0	5770.0	5770.0	5770.0	5770.0
2.5°	5750.7	5748.7	5749.7	5755.8	5758.8
5°	5677.8	5680.8	5705.1	5727.4	5737.5
7.5°	5575.5	5588.6	5630.2	5673.7	5696.0
10°	5466.1	5479.2	5526.8	5588.6	5607.9
12.5°	5353.6	5369.8	5412.4	5475.2	5498.5
15°	5244.2	5254.4	5299.9	5351.6	5375.9
17.5°	5131.8	5141.9	5183.4	5224.0	5243.2
20°	5014.3	5025.4	5056.8	5091.3	5112.5
22.5°	4879.5	4890.7	4917.0	4947.4	4966.7
25°	4722.5	4733.7	4751.9	4774.2	4783.3
27.5°	4524.0	4531.1	4513.9	4495.6	4479.4
30°	4254.5	4232.2	4163.4	4075.2	4040.8
32.5°	3871.6	3799.7	3667.0	3559.6	3520.1
35°	3266.9	3233.4	3120.0	3029.8	3000.5
37.5°	2561.8	2584.1	2576.0	2569.9	2576.0
40°	1910.5	1962.2	2073.6	2149.6	2173.9
42.5°	1446.5	1496.2	1621.8	1727.1	1763.6
45°	1175.1	1209.5	1285.5	1365.5	1394.9
47.5°	1014.0	1033.2	1071.7	1114.3	1128.5
50°	910.7	918.8	938.0	962.3	970.4
52.5°	828.6	832.7	843.8	857.0	859.0
55°	759.7	762.8	769.9	778.0	781.0
57.5°	702.0	705.0	707.1	712.1	714.2
60°	656.4	656.4	660.5	664.5	666.5
62.5°	606.8	606.8	610.8	614.9	614.9
65°	540.9	543.0	547.0	551.1	551.1
67.5°	469.0	470.0	473.1	477.1	476.1
70°	397.1	397.1	400.1	402.2	403.2
72.5°	328.2	327.2	332.3	333.3	330.2
75°	262.4	262.4	265.4	266.4	266.4
77.5°	204.6	203.6	203.6	204.6	205.6
80°	149.9	150.9	149.9	151.9	154.0
82.5°	104.3	103.3	103.3	103.3	102.3
85°	60.8	60.8	60.8	61.8	60.8
87.5°	24.3	24.3	23.3	23.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)