

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: P247689

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247689  
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: LSR8B120D010 EC8B120850 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: 12916.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

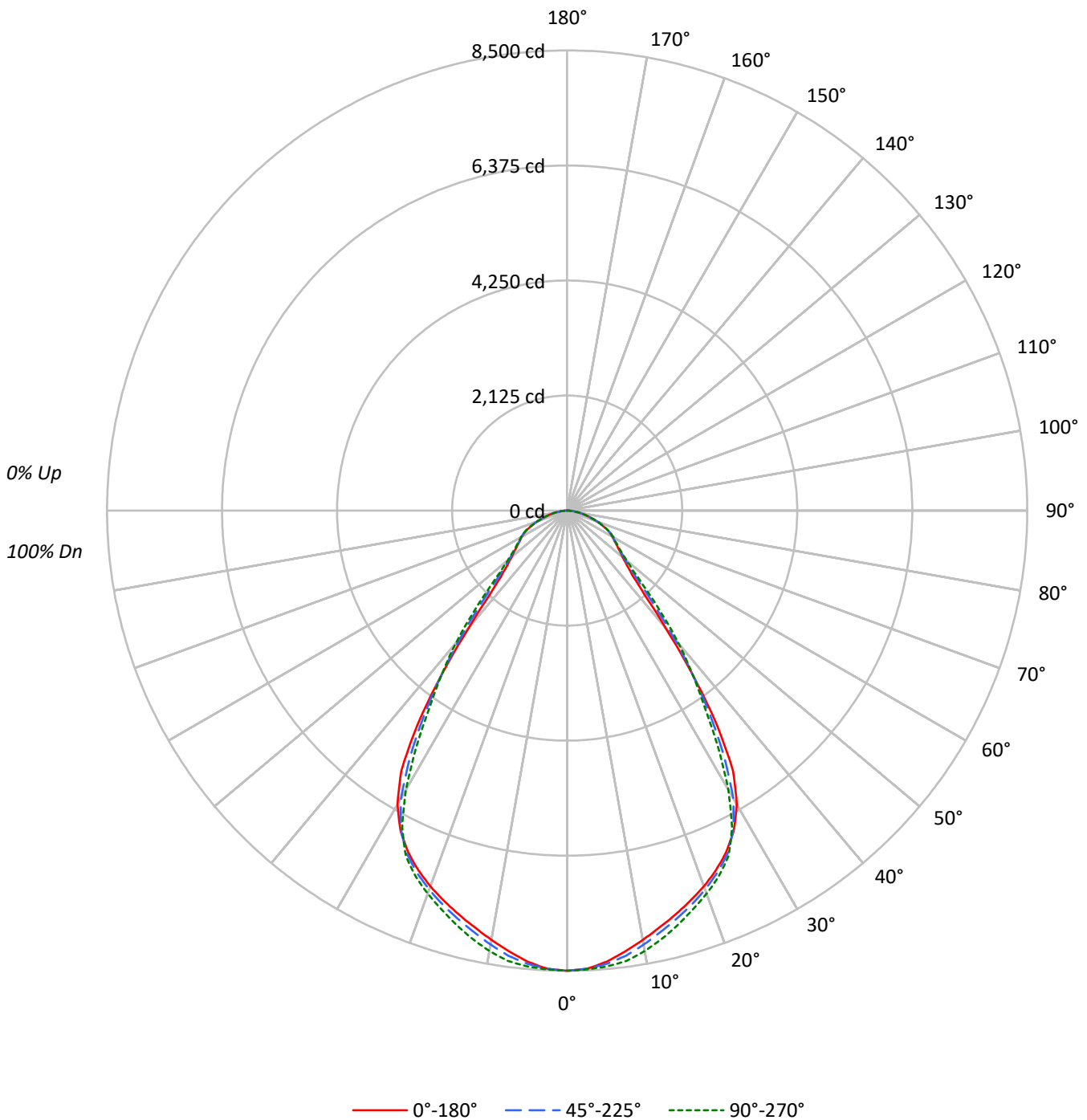
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	262096	262096	262096
5°	258894	260141	261621
10°	252124	254927	258665
15°	246620	249238	252813
20°	242387	244445	247139
25°	236696	238169	239741
30°	223158	218376	211945
35°	181159	173013	166384
40°	113287	122960	128905
45°	75487	82578	89608
50°	64355	66289	68577
55°	60170	60971	61853
60°	59637	60001	60556
65°	58138	58795	59233
70°	52734	53140	53546
75°	46049	46585	46763
80°	39209	39209	40275
85°	31666	31666	31666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	794.2	6.1
10°-20°	2203.6	17.1
20°-30°	3185.7	24.7
30°-40°	2851.0	22.1
40°-50°	1542.8	11.9
50°-60°	1028.3	8.0
60°-70°	787.5	6.1
70°-80°	417.3	3.2
80°-90°	105.6	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°	6183.4	47.9
0°-40°	9034.4	69.9
0°-60°	11605.6	89.9
0°-90°	12916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8500	8500	8500	8500	8500	
5°	8364	8368	8404	8437	8452	788
15°	7725	7740	7807	7883	7919	2180
25°	6957	6973	7000	7033	7046	3183
35°	4812	4763	4596	4463	4420	2913
45°	1731	1782	1894	2012	2055	1424
55°	1119	1124	1134	1146	1150	1012
65°	797	800	806	812	812	781
75°	386	386	391	392	392	415
85°	90	90	90	91	90	106
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8499.6	8499.6	8499.6	8499.6	8499.6
2.5°	8471.3	8468.3	8469.8	8478.7	8483.2
5°	8363.8	8368.3	8404.1	8437.0	8451.9
7.5°	8213.1	8232.5	8293.7	8357.9	8390.7
10°	8052.0	8071.4	8141.5	8232.5	8260.9
12.5°	7886.3	7910.2	7972.9	8065.4	8099.7
15°	7725.2	7740.1	7807.2	7883.4	7919.2
17.5°	7559.5	7574.5	7635.6	7695.3	7723.7
20°	7386.4	7402.9	7449.1	7499.9	7531.2
22.5°	7188.0	7204.4	7243.2	7288.0	7316.3
25°	6956.7	6973.1	7000.0	7032.8	7046.2
27.5°	6664.2	6674.7	6649.3	6622.4	6598.6
30°	6267.3	6234.5	6133.0	6003.2	5952.4
32.5°	5703.2	5597.3	5401.8	5243.6	5185.4
35°	4812.4	4763.1	4596.0	4463.2	4419.9
37.5°	3773.8	3806.6	3794.7	3785.7	3794.7
40°	2814.3	2890.4	3054.6	3166.5	3202.3
42.5°	2130.9	2204.0	2389.0	2544.2	2597.9
45°	1731.0	1781.7	1893.6	2011.5	2054.8
47.5°	1493.7	1522.1	1578.8	1641.4	1662.3
50°	1341.5	1353.4	1381.8	1417.6	1429.5
52.5°	1220.6	1226.6	1243.0	1262.4	1265.4
55°	1119.2	1123.6	1134.1	1146.0	1150.5
57.5°	1034.1	1038.6	1041.6	1049.0	1052.0
60°	967.0	967.0	972.9	978.9	981.9
62.5°	893.8	893.8	899.8	905.8	905.8
65°	796.8	799.8	805.8	811.8	811.8
67.5°	690.9	692.4	696.9	702.8	701.3
70°	584.9	584.9	589.4	592.4	593.9
72.5°	483.5	482.0	489.4	490.9	486.5
75°	386.5	386.5	391.0	392.5	392.5
77.5°	301.4	299.9	299.9	301.4	302.9
80°	220.8	222.3	220.8	223.8	226.8
82.5°	153.7	152.2	152.2	152.2	150.7
85°	89.5	89.5	89.5	91.0	89.5
87.5°	35.8	35.8	34.3	34.3	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)