

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: P247955

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150840 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17513.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

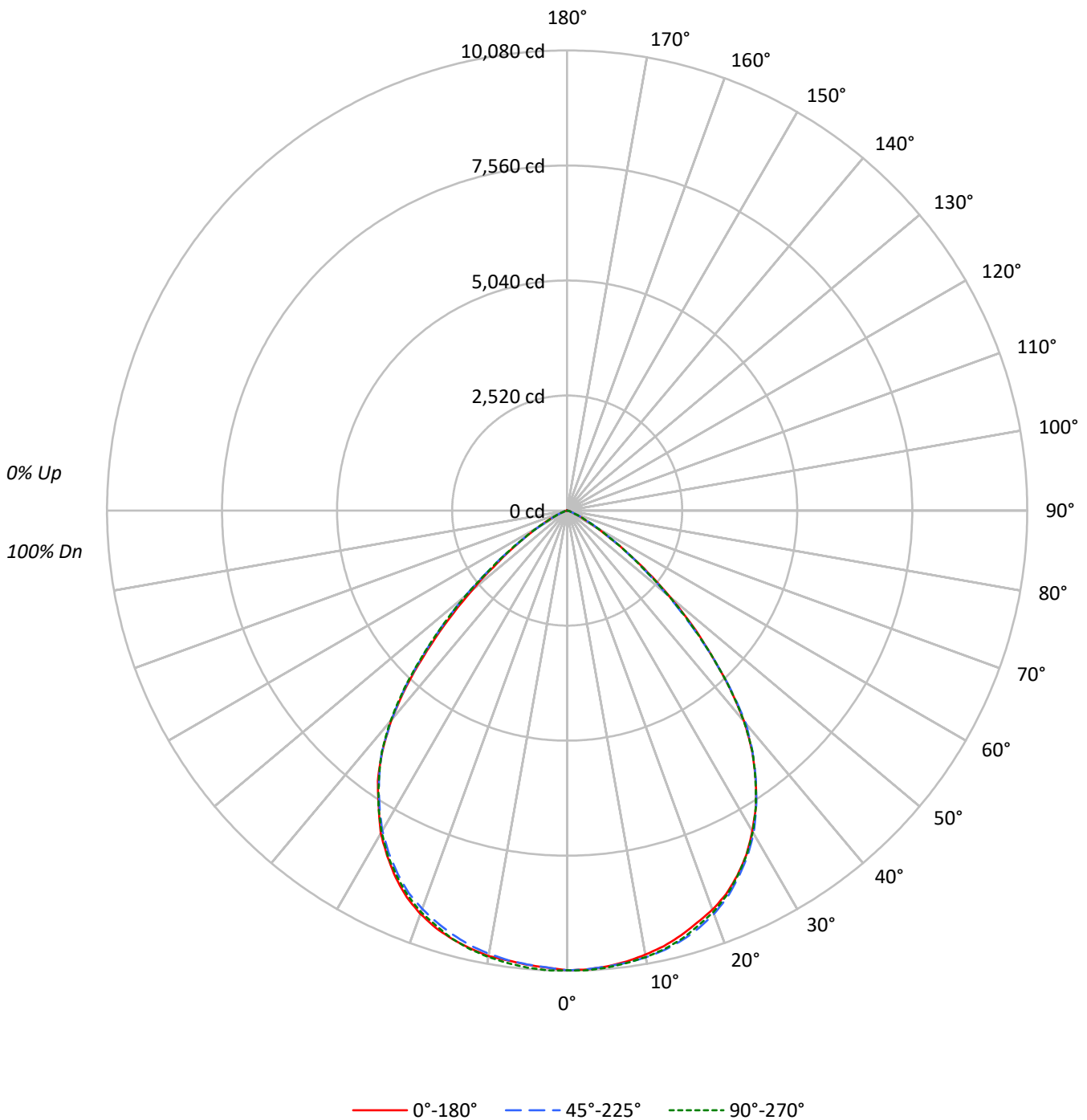
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	90°	180°
0°	310522	310522	310522
5°	310293	311033	309157
10°	309216	310925	310243
15°	307554	310028	310248
20°	305314	307109	308477
25°	300133	300470	302161
30°	288767	289404	290711
35°	271106	270620	272190
40°	243069	242429	240711
45°	194139	194096	189203
50°	140311	138977	130971
55°	85991	85352	81454
60°	44176	45891	45218
65°	21532	22400	22765
70°	9223	9494	9043
75°	7220	7220	6279
80°	3889	3534	3179
85°	3149	2123	4564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	953.4	5.4
10°-20°	2734.8	15.6
20°-30°	4062.8	23.2
30°-40°	4477.3	25.6
40°-50°	3410.2	19.5
50°-60°	1470.1	8.4
60°-70°	337.7	1.9
70°-80°	56.1	0.3
80°-90°	10.6	0.1
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°	7751.0	44.3
0°-40°	12228.3	69.8
0°-60°	17108.6	97.7
0°-90°	17513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10070	10070	10070	10070	10070	
5°	10024	10023	10048	9981	9988	952
15°	9634	9741	9711	9625	9718	2718
25°	8821	8871	8831	8780	8881	4048
35°	7202	7206	7189	7183	7231	4471
45°	4452	4443	4451	4427	4339	3434
55°	1600	1598	1588	1598	1515	1491
65°	295	324	307	305	312	330
75°	61	61	61	62	53	56
85°	9	6	6	18	13	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10070.0	10070.0	10070.0	10070.0	10070.0	10070.0	10070.0	10070.0	10070.0
2.5°	10059.1	10060.1	10053.1	10068.0	10080.0	10041.2	10018.4	10070.0	10020.4
5°	10024.3	10031.3	10023.3	10042.2	10048.2	10016.4	9980.6	10036.3	9987.6
7.5°	9964.7	9978.6	9990.6	10012.4	9996.5	9956.8	9932.9	9998.5	9938.9
10°	9875.3	9910.1	9935.9	9968.7	9929.9	9887.2	9858.4	9947.8	9908.1
12.5°	9775.0	9814.7	9858.4	9898.2	9839.5	9777.0	9762.0	9857.4	9821.7
15°	9633.9	9670.6	9741.2	9778.9	9711.4	9639.8	9624.9	9746.2	9718.3
17.5°	9468.0	9532.6	9592.2	9622.0	9536.5	9474.9	9467.0	9592.2	9581.2
20°	9304.0	9338.8	9400.4	9440.2	9358.7	9285.2	9282.2	9411.3	9400.4
22.5°	9096.4	9127.2	9167.9	9204.7	9128.2	9066.6	9070.6	9176.9	9174.9
25°	8821.2	8842.1	8870.9	8911.6	8831.1	8787.4	8779.5	8892.7	8880.8
27.5°	8500.3	8514.2	8547.0	8581.8	8512.2	8473.5	8459.6	8572.8	8533.1
30°	8109.9	8141.7	8164.5	8179.4	8127.8	8103.9	8094.0	8183.4	8164.5
32.5°	7695.6	7706.5	7707.5	7744.3	7689.6	7655.8	7655.8	7727.4	7684.7
35°	7201.8	7199.8	7205.8	7245.5	7188.9	7200.8	7182.9	7239.6	7230.6
37.5°	6660.4	6669.3	6671.3	6703.1	6671.3	6679.2	6672.3	6681.2	6652.4
40°	6038.4	6077.2	6090.1	6084.1	6022.5	6001.7	5983.8	6016.6	5979.8
42.5°	5266.5	5284.4	5286.4	5290.3	5273.5	5270.5	5248.6	5262.5	5204.9
45°	4451.8	4459.8	4442.9	4439.9	4450.8	4467.7	4427.0	4395.2	4338.6
47.5°	3707.7	3679.9	3603.4	3631.2	3643.1	3685.9	3642.1	3556.7	3510.0
50°	2924.8	2896.0	2837.4	2850.3	2897.0	2961.6	2910.9	2792.7	2730.1
52.5°	2234.4	2201.6	2136.0	2147.9	2161.8	2210.5	2183.7	2103.2	2042.6
55°	1599.5	1576.7	1598.5	1580.6	1587.6	1634.3	1597.5	1531.0	1515.1
57.5°	1080.9	1093.8	1111.7	1114.7	1100.8	1086.9	1081.9	1056.1	1070.0
60°	716.3	726.2	756.0	765.0	744.1	714.3	720.3	720.3	733.2
62.5°	463.0	471.9	506.7	512.6	482.8	474.9	474.9	471.9	495.8
65°	295.1	312.9	323.9	308.0	307.0	296.1	305.0	305.0	312.0
67.5°	176.8	160.9	171.9	178.8	171.9	162.9	160.9	161.9	171.9
70°	102.3	98.4	105.3	101.3	105.3	91.4	102.3	97.4	100.3
72.5°	65.6	64.6	64.6	68.6	64.6	62.6	66.6	57.6	63.6
75°	60.6	60.6	60.6	52.7	60.6	58.6	61.6	46.7	52.7
77.5°	23.8	27.8	33.8	32.8	32.8	30.8	27.8	23.8	36.8
80°	21.9	19.9	26.8	31.8	19.9	23.8	26.8	16.9	17.9
82.5°	10.9	9.9	12.9	12.9	12.9	7.0	17.9	10.9	8.9
85°	8.9	4.0	6.0	6.0	6.0	7.9	17.9	5.0	12.9
87.5°	2.0	3.0	5.0	5.0	6.0	9.9	17.9	4.0	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)