

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: P247886

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150850 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18371.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

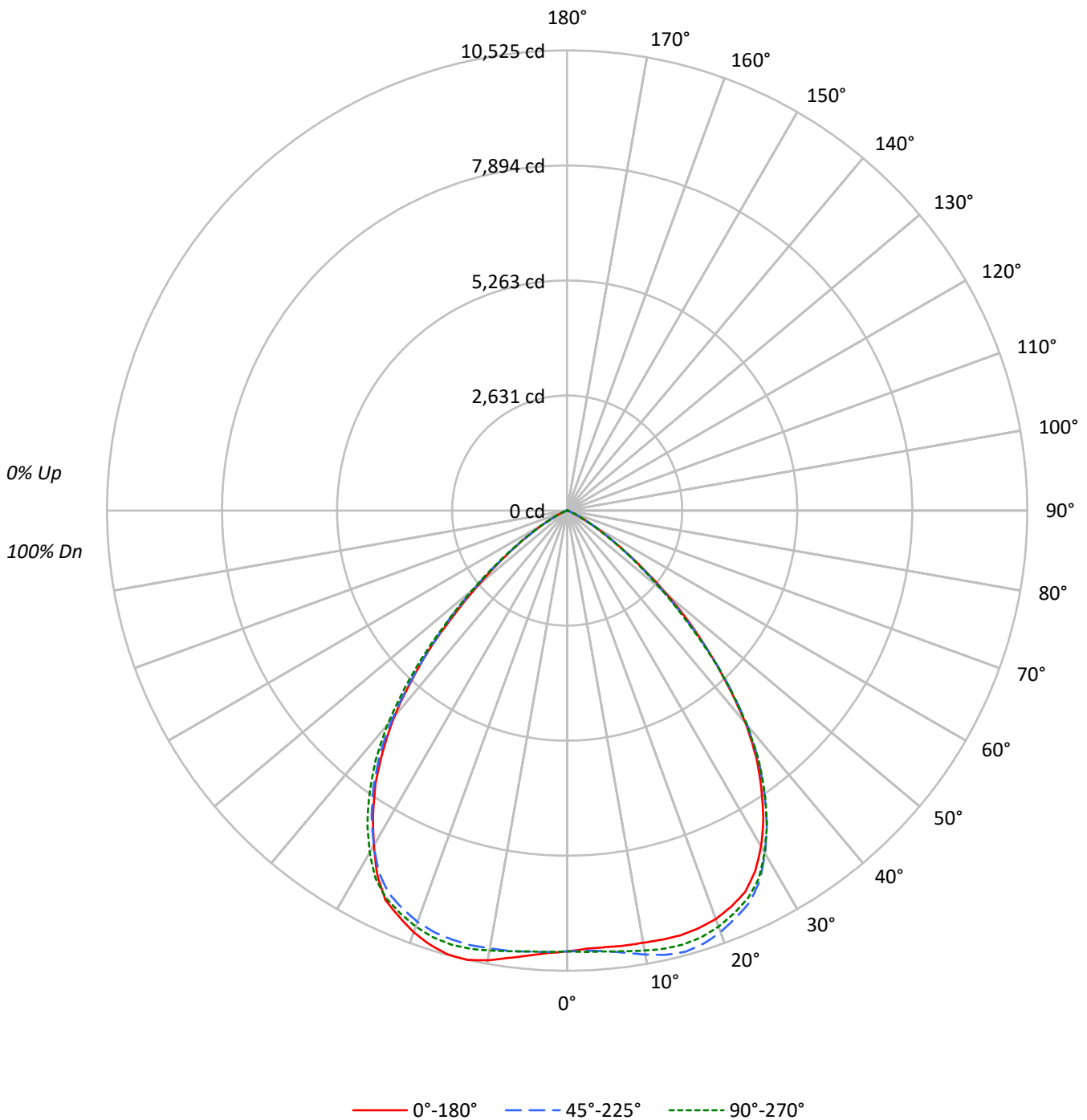
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

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

	0°	90°	180°
0°	310910	310910	310910
5°	310312	313290	316205
10°	314216	319959	327063
15°	321006	327959	335589
20°	326243	332262	336849
25°	327509	332851	334471
30°	315910	321429	314792
35°	291355	296467	287733
40°	255452	257368	247582
45°	200589	198954	191357
50°	142522	135864	126586
55°	84787	81739	76567
60°	42542	40790	40482
65°	17884	17220	17665
70°	6663	5752	5572
75°	2657	2895	2895
80°	3054	2166	728
85°	3220	6085	2512



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	969.6	5.3
10°-20°	2903.2	15.8
20°-30°	4461.9	24.3
30°-40°	4826.9	26.3
40°-50°	3479.2	18.9
50°-60°	1412.3	7.7
60°-70°	282.1	1.5
70°-80°	28.3	0.2
80°-90°	7.6	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°	8334.7	45.4
0°-40°	13161.7	71.6
0°-60°	18053.1	98.3
0°-90°	18371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18371.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10083	10083	10083	10083	10083	
5°	10025	10110	10121	10125	10215	958
15°	10055	10445	10273	10159	10512	2841
25°	9626	9882	9783	9657	9830	4400
35°	7740	7853	7876	7714	7644	4806
45°	4600	4622	4562	4409	4388	3548
55°	1577	1528	1520	1469	1424	1479
65°	245	265	236	225	242	292
75°	22	27	24	23	24	29
85°	9	13	17	8	7	8
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°	10082.6	10082.6	10082.6	10082.6	10082.6	10082.6	10082.6	10082.6	10082.6
2.5°	10031.0	10094.8	10073.5	10046.2	10103.9	10092.8	10104.9	10110.0	10129.2
5°	10024.9	10096.8	10110.0	10080.6	10121.1	10101.9	10125.2	10168.7	10215.3
7.5°	10035.0	10143.4	10200.1	10182.9	10163.7	10097.8	10158.6	10258.9	10320.7
10°	10035.0	10178.9	10310.5	10309.5	10218.4	10095.8	10163.7	10336.9	10445.3
12.5°	10051.2	10227.5	10407.8	10419.9	10265.0	10110.0	10182.9	10387.5	10525.3
15°	10055.3	10228.5	10445.3	10451.3	10273.1	10090.7	10158.6	10378.4	10512.1
17.5°	10012.7	10179.9	10385.5	10406.8	10227.5	10042.1	10111.0	10307.5	10413.9
20°	9941.8	10091.8	10258.9	10294.3	10125.2	9948.9	10009.7	10178.9	10265.0
22.5°	9806.1	9942.9	10080.6	10106.9	9971.2	9817.3	9847.6	9979.3	10051.2
25°	9625.8	9761.5	9882.1	9896.3	9782.8	9645.1	9657.2	9757.5	9830.4
27.5°	9305.7	9434.4	9543.8	9561.0	9493.1	9346.2	9324.0	9371.6	9402.0
30°	8872.2	8960.3	9051.5	9106.2	9027.2	8905.6	8842.8	8868.1	8840.8
32.5°	8351.6	8441.7	8497.4	8514.6	8502.5	8396.1	8322.2	8258.4	8262.4
35°	7739.7	7821.8	7853.2	7884.6	7875.5	7792.4	7714.4	7654.7	7643.5
37.5°	7098.6	7153.3	7188.7	7213.0	7192.8	7140.1	7038.8	6935.5	6918.3
40°	6346.0	6429.0	6400.7	6412.8	6393.6	6326.7	6225.4	6166.7	6150.5
42.5°	5462.7	5535.6	5529.5	5533.6	5491.1	5399.9	5311.8	5279.4	5262.1
45°	4599.7	4635.1	4622.0	4579.4	4562.2	4505.5	4409.3	4347.5	4388.0
47.5°	3787.3	3775.2	3687.0	3652.6	3627.3	3635.4	3614.1	3505.7	3447.0
50°	2970.9	2939.5	2855.4	2803.8	2832.1	2854.4	2775.4	2710.6	2638.7
52.5°	2203.1	2209.2	2129.2	2072.4	2098.8	2102.8	2056.2	2019.8	1998.5
55°	1577.1	1577.1	1528.5	1510.3	1520.4	1501.2	1468.7	1456.6	1424.2
57.5°	1072.7	1079.8	1076.7	1055.5	1007.9	990.6	972.4	990.6	1001.8
60°	689.8	707.0	704.0	702.0	661.4	620.9	638.1	654.3	656.4
62.5°	424.4	432.5	446.7	434.5	414.3	381.9	377.8	402.1	424.4
65°	245.1	254.2	265.4	257.3	236.0	230.9	224.9	238.0	242.1
67.5°	139.8	135.7	136.7	130.7	124.6	117.5	118.5	124.6	133.7
70°	73.9	63.8	64.8	58.7	63.8	56.7	54.7	59.8	61.8
72.5°	37.5	36.5	41.5	41.5	44.6	39.5	39.5	37.5	42.5
75°	22.3	25.3	27.3	30.4	24.3	23.3	23.3	23.3	24.3
77.5°	6.1	3.0	4.1	13.2	5.1	10.1	5.1	4.1	9.1
80°	17.2	10.1	6.1	11.1	12.2	6.1	15.2	14.2	4.1
82.5°	6.1	0.0	11.1	12.2	10.1	10.1	12.2	12.2	11.1
85°	9.1	6.1	13.2	15.2	17.2	10.1	8.1	5.1	7.1
87.5°	4.1	0.0	6.1	5.1	3.0	1.0	3.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)