

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: P248060

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150835 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17315.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

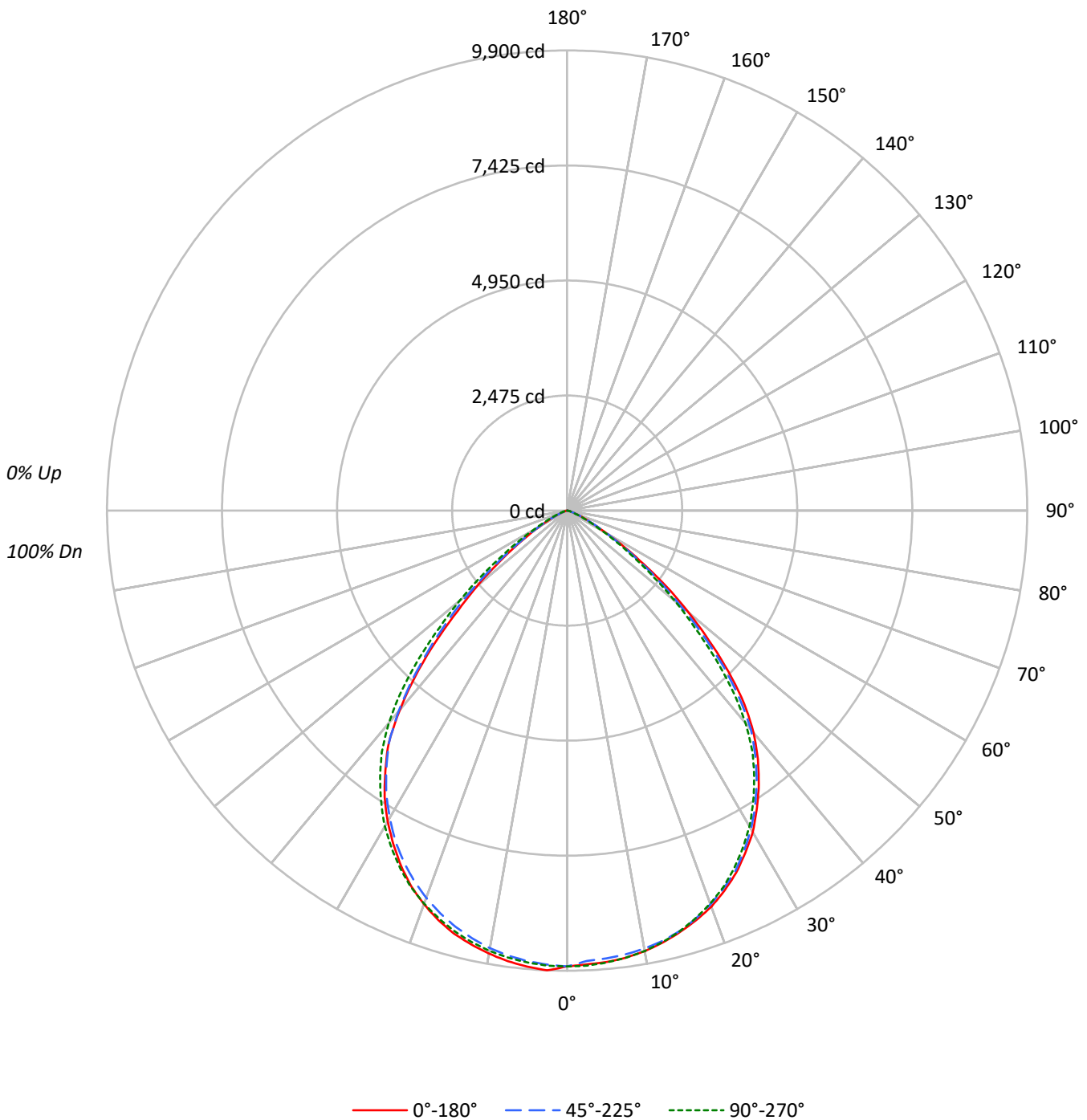
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

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

	0°	90°	180°
0°	302412	302412	302412
5°	301803	302112	304805
10°	301378	301190	303038
15°	299640	299097	300725
20°	297635	295272	295732
25°	292607	289103	287368
30°	284391	279370	274955
35°	270624	264112	256771
40°	251305	240517	225664
45°	214208	197157	175047
50°	163107	145310	121227
55°	107523	93706	75481
60°	60378	53100	41691
65°	31667	28310	20138
70°	15147	13344	8385
75°	8578	9293	5838
80°	6570	6393	3374
85°	3892	3184	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.1	5.3
10°-20°	2637.9	15.2
20°-30°	3897.1	22.5
30°-40°	4342.8	25.1
40°-50°	3429.7	19.8
50°-60°	1583.8	9.1
60°-70°	406.9	2.3
70°-80°	78.4	0.5
80°-90°	12.3	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°	7461.1	43.1
0°-40°	11804.0	68.2
0°-60°	16817.5	97.1
0°-90°	17315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9807	9807	9807	9807	9807	
5°	9750	9672	9760	9730	9847	927
15°	9386	9364	9369	9271	9420	2649
25°	8600	8560	8497	8327	8446	3952
35°	7189	7109	7016	6782	6821	4477
45°	4912	4769	4521	4160	4014	3749
55°	2000	1885	1743	1492	1404	1853
65°	434	440	388	297	276	477
75°	72	76	78	59	49	87
85°	11	11	9	5	4	15
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°	9807	9807	9807	9807	9807	9807	9807	9807	9807
2.5°	9770	9816	9699	9794	9798	9731	9777	9832	9900
5°	9750	9797	9672	9760	9760	9687	9730	9778	9847
7.5°	9703	9754	9631	9713	9700	9620	9658	9705	9779
10°	9625	9688	9568	9646	9619	9527	9560	9609	9678
12.5°	9518	9593	9481	9549	9506	9401	9428	9491	9559
15°	9386	9463	9364	9423	9369	9252	9271	9335	9420
17.5°	9239	9314	9203	9267	9195	9074	9081	9155	9232
20°	9070	9132	9018	9079	8998	8865	8866	8932	9012
22.5°	8848	8913	8795	8846	8772	8630	8613	8677	8754
25°	8600	8668	8560	8578	8497	8350	8327	8374	8446
27.5°	8303	8370	8248	8271	8182	8041	8010	8035	8092
30°	7987	8029	7913	7932	7846	7679	7632	7666	7722
32.5°	7598	7628	7529	7539	7446	7302	7240	7250	7307
35°	7189	7205	7109	7111	7016	6870	6782	6777	6821
37.5°	6738	6749	6652	6647	6549	6391	6299	6283	6310
40°	6243	6258	6157	6125	5975	5795	5645	5617	5606
42.5°	5643	5602	5496	5442	5291	5060	4921	4879	4843
45°	4912	4879	4769	4647	4521	4347	4160	4045	4014
47.5°	4145	4106	3948	3841	3717	3637	3436	3259	3182
50°	3400	3357	3181	3102	3029	2910	2715	2556	2527
52.5°	2711	2646	2495	2413	2348	2216	2040	1948	1899
55°	2000	1990	1885	1826	1743	1638	1492	1423	1404
57.5°	1457	1420	1380	1330	1258	1126	1036	984	980
60°	979	991	991	936	861	775	703	675	676
62.5°	657	665	663	639	581	511	464	444	445
65°	434	432	440	423	388	339	297	286	276
67.5°	276	279	276	267	246	211	183	166	161
70°	168	164	165	163	148	131	111	97	93
72.5°	101	104	105	108	106	94	80	70	68
75°	72	73	76	79	78	70	59	52	49
77.5°	54	54	56	60	57	50	42	36	34
80°	37	38	39	39	36	32	25	21	19
82.5°	22	23	22	22	20	16	12	11	10
85°	11	11	11	11	9	7	5	4	4
87.5°	5	5	5	4	3	2	2	1	1
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)