

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: P248096

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150835 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16689.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

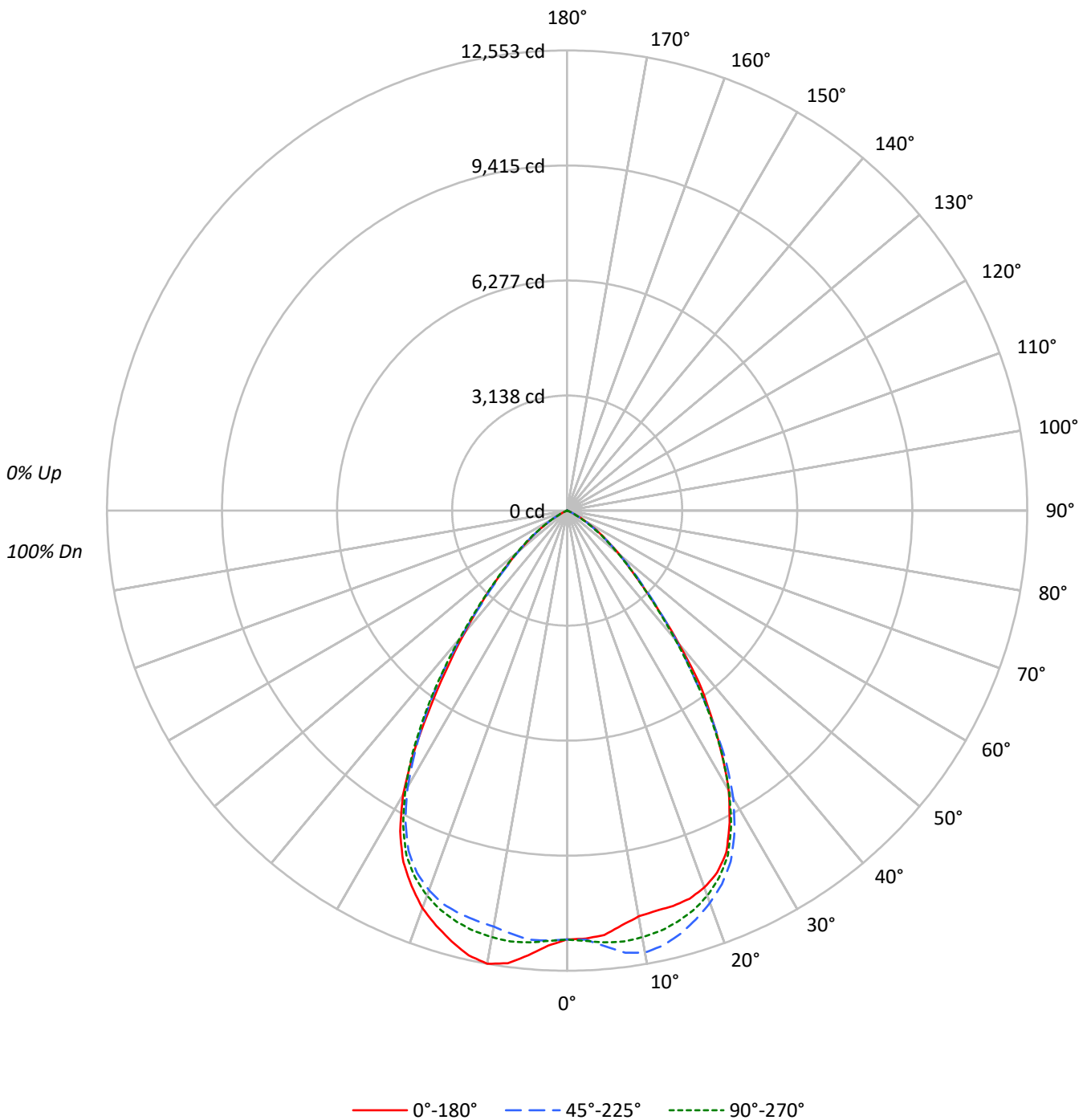
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°
0°	360779	360779	360779
5°	359711	365995	376919
10°	351972	370008	393050
15°	356394	370856	388443
20°	359059	366869	378748
25°	349863	353129	359900
30°	313830	314649	318424
35°	257821	254019	243027
40°	190478	184319	174899
45°	126331	125372	123497
50°	89373	85488	83473
55°	59729	54353	51396
60°	33612	29171	26581
65°	12988	9340	7734
70°	3787	2164	1803
75°	1072	596	715
80°	0	0	0
85°	708	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1131.8	6.8
10°-20°	3282.1	19.7
20°-30°	4713.3	28.2
30°-40°	4166.3	25.0
40°-50°	2280.6	13.7
50°-60°	938.9	5.6
60°-70°	168.2	1.0
70°-80°	7.3	0.0
80°-90°	0.6	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°	9127.2	54.7
0°-40°	13293.5	79.7
0°-60°	16512.9	98.9
0°-90°	16689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16689.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11700	11700	11700	11700	11700	
5°	11621	11933	11824	11752	12177	###
15°	11164	11953	11617	11377	12168	3153
25°	10283	10561	10379	10242	10578	4651
35°	6849	6788	6748	6656	6456	4249
45°	2897	2982	2875	2752	2832	2331
55°	1111	1059	1011	978	956	1007
65°	178	139	128	103	106	207
75°	9	4	5	6	6	14
85°	2	2	0	6	0	1
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°	11699.8	11699.8	11699.8	11699.8	11699.8	11699.8	11699.8	11699.8	11699.8
2.5°	11684.8	11705.8	11715.8	11768.8	11750.8	11725.8	11739.8	11782.8	11875.8
5°	11620.8	11732.8	11932.8	12000.7	11823.8	11669.8	11751.8	11986.7	12176.7
7.5°	11409.8	11691.8	12164.7	12267.7	11857.8	11503.8	11646.8	12153.7	12453.7
10°	11240.8	11590.8	12240.7	12393.7	11816.8	11358.8	11525.8	12145.7	12552.7
12.5°	11183.8	11506.8	12144.7	12317.7	11747.8	11307.8	11454.8	12028.7	12426.7
15°	11163.8	11422.8	11952.8	12091.7	11616.8	11257.8	11376.8	11837.8	12167.7
17.5°	11101.8	11294.8	11689.8	11802.8	11436.8	11158.8	11250.8	11608.8	11873.8
20°	10941.8	11105.8	11389.8	11468.8	11179.8	10961.8	11020.8	11289.8	11541.8
22.5°	10691.8	10797.8	11027.8	11065.8	10836.8	10662.8	10699.8	10900.8	11084.8
25°	10282.8	10356.8	10560.8	10570.8	10378.8	10226.8	10241.8	10409.8	10577.8
27.5°	9594.8	9734.8	9884.8	9927.8	9686.8	9508.8	9554.8	9666.8	9863.8
30°	8813.8	8916.8	9063.8	9030.8	8836.8	8676.8	8695.8	8795.8	8942.8
32.5°	7839.8	7948.8	8023.8	7955.8	7857.8	7714.8	7671.8	7714.8	7754.8
35°	6848.9	6885.9	6787.9	6748.9	6747.9	6703.9	6655.9	6525.9	6455.9
37.5°	5902.9	5786.9	5610.9	5535.9	5621.9	5728.9	5584.9	5414.9	5326.9
40°	4731.9	4734.9	4624.9	4546.9	4578.9	4542.9	4479.9	4370.9	4344.9
42.5°	3698.9	3709.9	3744.9	3700.9	3623.9	3506.9	3471.9	3476.9	3553.9
45°	2896.9	2918.9	2981.9	2975.9	2874.9	2800.9	2751.9	2820.9	2831.9
47.5°	2304.0	2335.0	2361.0	2359.0	2281.0	2207.0	2185.0	2198.0	2225.0
50°	1863.0	1860.0	1840.0	1814.0	1782.0	1767.0	1742.0	1740.0	1740.0
52.5°	1435.0	1440.0	1400.0	1402.0	1387.0	1345.0	1334.0	1312.0	1312.0
55°	1111.0	1091.0	1059.0	1028.0	1011.0	982.0	978.0	955.0	956.0
57.5°	789.0	771.0	733.0	714.0	701.0	693.0	676.0	658.0	650.0
60°	545.0	530.0	509.0	490.0	473.0	469.0	453.0	435.0	431.0
62.5°	329.0	325.0	288.0	281.0	268.0	262.0	251.0	239.0	240.0
65°	178.0	152.0	139.0	131.0	128.0	112.0	103.0	101.0	106.0
67.5°	48.0	48.0	39.0	37.0	37.0	27.0	31.0	30.0	39.0
70°	42.0	30.0	26.0	21.0	24.0	14.0	26.0	21.0	20.0
72.5°	22.0	12.0	10.0	10.0	11.0	7.0	16.0	9.0	7.0
75°	9.0	6.0	4.0	2.0	5.0	5.0	6.0	2.0	6.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	3.0	2.0	0.0	0.0	0.0	6.0	0.0	0.0
87.5°	0.0	2.0	1.0	0.0	0.0	0.0	2.0	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)