

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: P247957

Luminaire Tested: **LD8B200D010 ER8B200840 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247957  
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: LD8B200D010 ER8B200840 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23307.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

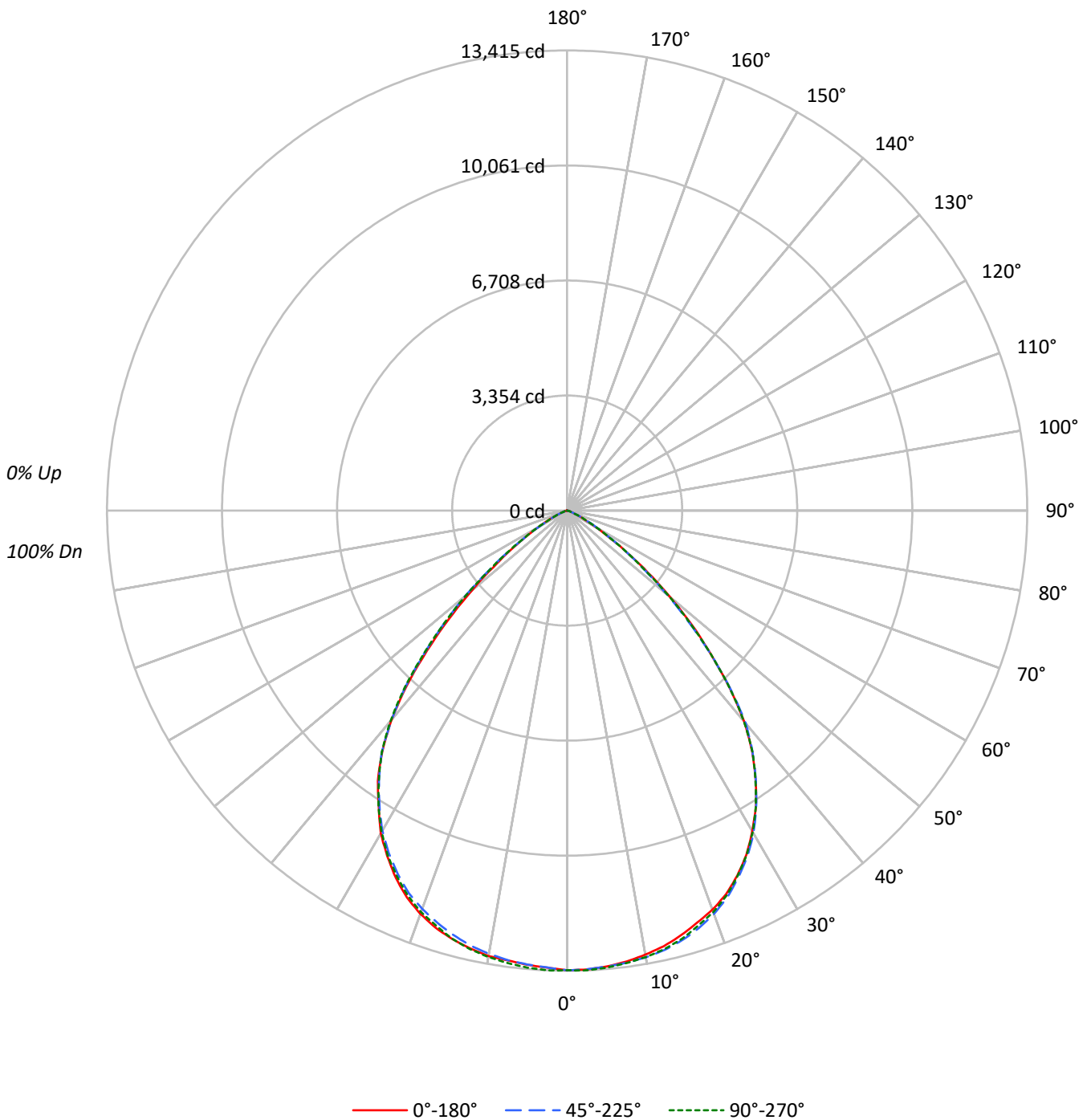
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	413256	413256	413256
5°	412953	413934	411439
10°	411518	413795	412883
15°	409305	412597	412890
20°	406326	408712	410536
25°	399429	399879	402131
30°	384300	385147	386892
35°	360801	360153	362243
40°	323489	322635	320349
45°	258371	258314	251799
50°	186734	184959	174300
55°	114442	113587	108399
60°	58793	61074	60180
65°	28653	29813	30295
70°	12280	12640	12036
75°	9615	9615	8352
80°	5168	4688	4226
85°	4210	2795	6085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1268.8	5.4
10°-20°	3639.5	15.6
20°-30°	5406.9	23.2
30°-40°	5958.6	25.6
40°-50°	4538.5	19.5
50°-60°	1956.4	8.4
60°-70°	449.4	1.9
70°-80°	74.7	0.3
80°-90°	14.0	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°	10315.3	44.3
0°-40°	16273.9	69.8
0°-60°	22768.9	97.7
0°-90°	23307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13402	13402	13402	13402	13402	
5°	13341	13340	13372	13283	13292	###
15°	12821	12964	12924	12809	12934	3617
25°	11740	11806	11753	11684	11819	5388
35°	9584	9590	9567	9559	9623	5951
45°	5925	5913	5923	5892	5774	4570
55°	2129	2127	2113	2126	2016	1985
65°	393	431	409	406	415	439
75°	81	81	81	82	70	74
85°	12	8	8	24	17	12
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°	13401.6	13401.6	13401.6	13401.6	13401.6	13401.6	13401.6	13401.6	13401.6
2.5°	13387.1	13388.4	13379.1	13399.0	13414.8	13363.3	13332.8	13401.6	13335.5
5°	13340.8	13350.0	13339.5	13364.6	13372.5	13330.2	13282.6	13356.6	13291.9
7.5°	13261.4	13280.0	13295.8	13324.9	13303.8	13250.9	13219.1	13306.4	13227.1
10°	13142.5	13188.7	13223.1	13266.7	13215.2	13158.3	13120.0	13239.0	13186.1
12.5°	13008.9	13061.8	13120.0	13172.9	13094.9	13011.6	12991.7	13118.7	13071.1
15°	12821.2	12870.1	12964.0	13014.2	12924.3	12829.1	12809.3	12970.6	12933.5
17.5°	12600.4	12686.3	12765.6	12805.3	12691.6	12609.6	12599.0	12765.6	12751.1
20°	12382.2	12428.5	12510.5	12563.3	12454.9	12357.1	12353.1	12525.0	12510.5
22.5°	12105.9	12146.9	12201.1	12250.0	12148.2	12066.2	12071.5	12213.0	12210.3
25°	11739.6	11767.4	11805.7	11859.9	11752.8	11694.7	11684.1	11834.8	11819.0
27.5°	11312.6	11331.1	11374.7	11421.0	11328.4	11276.9	11258.3	11409.1	11356.2
30°	10792.9	10835.3	10865.7	10885.5	10816.7	10785.0	10771.8	10890.8	10865.7
32.5°	10241.6	10256.1	10257.5	10306.4	10233.7	10188.7	10188.7	10283.9	10227.0
35°	9584.5	9581.8	9589.8	9642.6	9567.3	9583.1	9559.3	9634.7	9622.8
37.5°	8863.9	8875.8	8878.4	8920.7	8878.4	8889.0	8879.7	8891.6	8853.3
40°	8036.2	8087.8	8105.0	8097.0	8015.0	7987.3	7963.5	8007.1	7958.2
42.5°	7008.9	7032.7	7035.3	7040.6	7018.1	7014.2	6985.1	7003.6	6926.9
45°	5924.7	5935.3	5912.8	5908.8	5923.4	5945.8	5891.6	5849.3	5774.0
47.5°	4934.4	4897.3	4795.5	4832.6	4848.4	4905.3	4847.1	4733.4	4671.3
50°	3892.5	3854.1	3776.1	3793.3	3855.5	3941.4	3874.0	3716.6	3633.3
52.5°	2973.6	2929.9	2842.7	2858.5	2877.1	2941.8	2906.1	2799.1	2718.4
55°	2128.7	2098.3	2127.4	2103.6	2112.8	2175.0	2126.1	2037.5	2016.3
57.5°	1438.5	1455.7	1479.5	1483.5	1465.0	1446.5	1439.9	1405.5	1424.0
60°	953.3	966.5	1006.2	1018.1	990.3	950.6	958.6	958.6	975.8
62.5°	616.1	628.0	674.3	682.2	642.6	632.0	632.0	628.0	659.8
65°	392.7	416.5	431.0	409.9	408.6	394.0	405.9	405.9	415.2
67.5°	235.3	214.2	228.7	238.0	228.7	216.8	214.2	215.5	228.7
70°	136.2	130.9	140.2	134.9	140.2	121.6	136.2	129.6	133.5
72.5°	87.3	85.9	85.9	91.2	85.9	83.3	88.6	76.7	84.6
75°	80.7	80.7	80.7	70.1	80.7	78.0	82.0	62.1	70.1
77.5°	31.7	37.0	45.0	43.6	43.6	41.0	37.0	31.7	48.9
80°	29.1	26.4	35.7	42.3	26.4	31.7	35.7	22.5	23.8
82.5°	14.5	13.2	17.2	17.2	17.2	9.3	23.8	14.5	11.9
85°	11.9	5.3	7.9	7.9	7.9	10.6	23.8	6.6	17.2
87.5°	2.6	4.0	6.6	6.6	7.9	13.2	23.8	5.3	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)