

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P204888

Luminaire Tested: **LE\_6B20D010 EC6B10208040 6LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B20D010 EC6B10208040 6LBCSMB1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2448.8 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

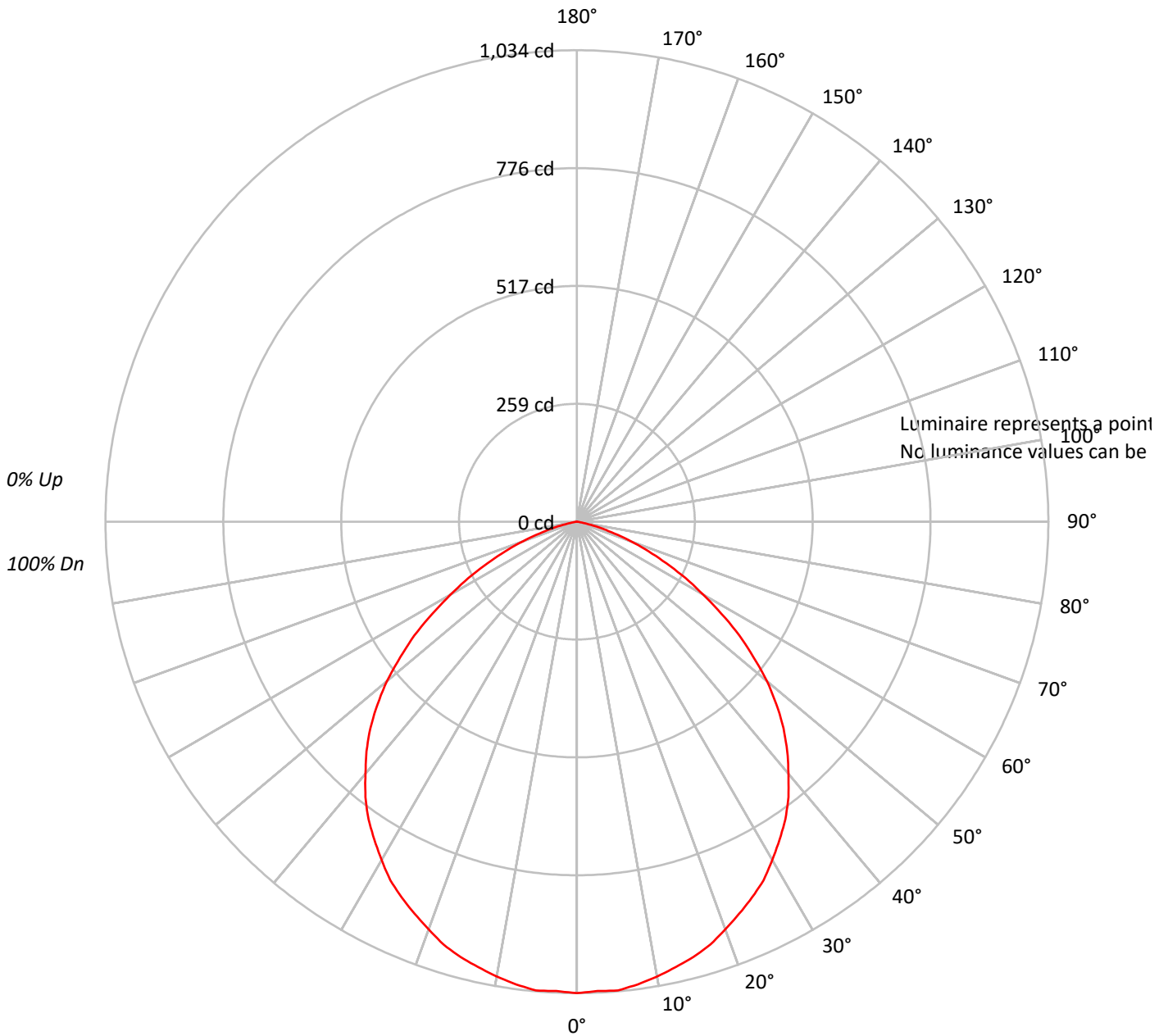
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88				88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56				56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39				39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35				35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31				31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28				28

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	4.0
10°-20°	278.6	11.4
20°-30°	418.9	17.1
30°-40°	497.0	20.3
40°-50°	491.8	20.1
50°-60°	386.3	15.8
60°-70°	216.6	8.8
70°-80°	60.8	2.5
80°-90°	0.9	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°	795.3	32.5
0°-40°	1292.3	52.8
0°-60°	2170.5	88.6
0°-90°	2448.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1034	
5°	1032	98
15°	988	279
25°	909	419
35°	797	497
45°	641	492
55°	435	386
65°	216	217
75°	53	61
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1034.0
2.5°	1030.5
5°	1032.2
7.5°	1023.5
10°	1013.0
12.5°	1000.6
15°	988.4
17.5°	972.6
20°	951.5
22.5°	930.5
25°	909.4
27.5°	886.6
30°	856.8
32.5°	826.9
35°	797.0
37.5°	761.9
40°	721.5
42.5°	682.9
45°	640.8
47.5°	593.4
50°	544.2
52.5°	488.0
55°	435.4
57.5°	375.8
60°	319.5
62.5°	268.6
65°	215.9
67.5°	170.2
70°	126.4
72.5°	86.0
75°	52.6
77.5°	26.4
80°	7.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)