

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243645

Luminaire Tested: S125DRP-H375D930-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-H375D930-X4F0-XX-UDD-F-W  
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

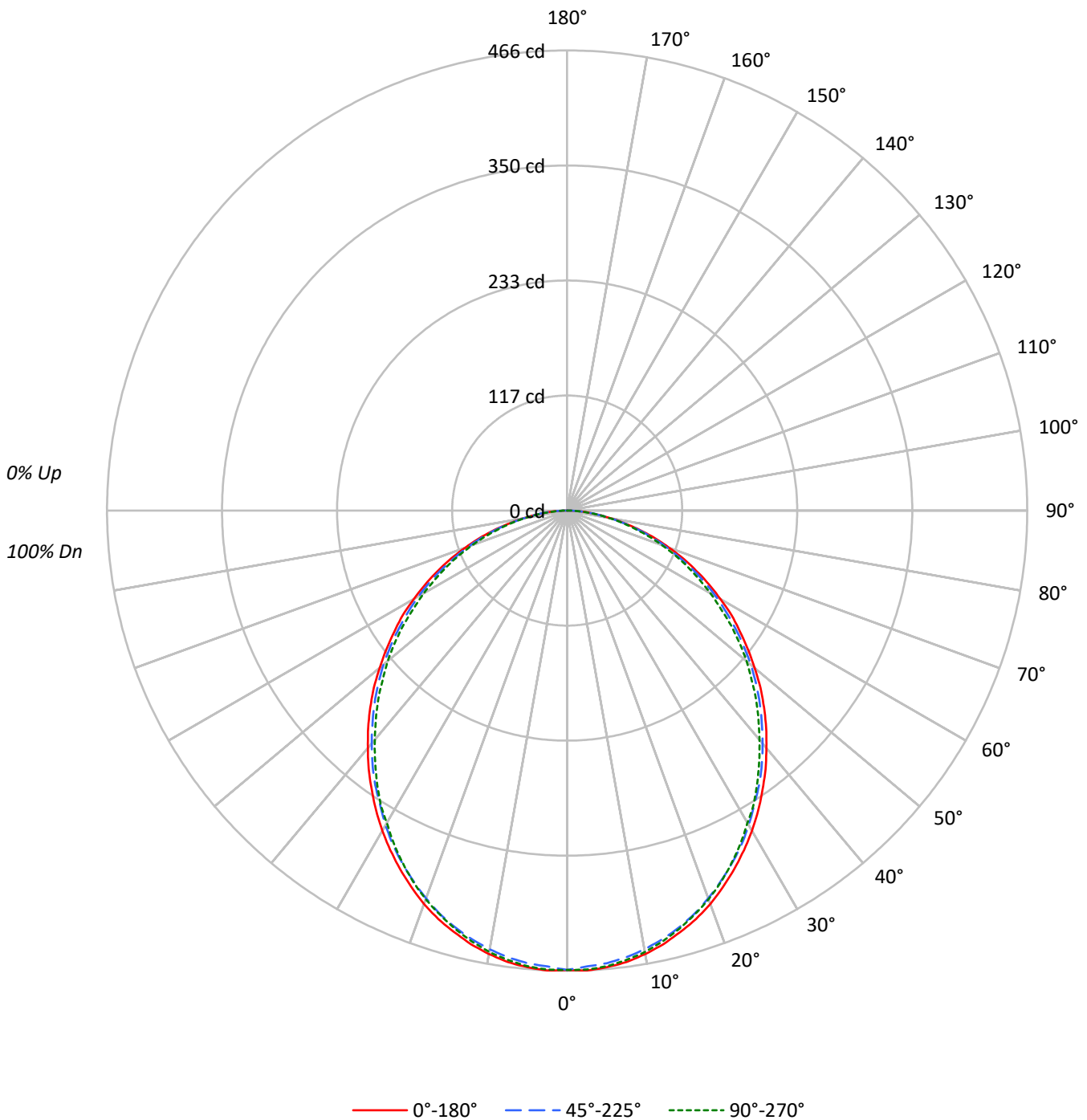
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1200.9 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.2  
Input Voltage (V): 120  
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: 24 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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84													84															
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70													70															
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60													60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51													51															
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44													44															
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39													39															
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35													35															
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31													31															
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28													28															
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25													25															

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

	0°	45°	90°
0°	3306	3306	3306
5°	3312	3283	3305
10°	3291	3256	3276
15°	3252	3217	3227
20°	3206	3160	3168
25°	3140	3094	3089
30°	3073	3019	2997
35°	2994	2940	2914
40°	2913	2857	2812
45°	2833	2772	2721
50°	2740	2684	2623
55°	2648	2576	2508
60°	2547	2475	2387
65°	2428	2343	2262
70°	2278	2192	2122
75°	2101	2035	1941
80°	1830	1817	1772
85°	1590	1590	1500

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2833 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	3.7
10°-20°	123.8	10.3
20°-30°	182.6	15.2
30°-40°	212.6	17.7
40°-50°	213.1	17.7
50°-60°	186.3	15.5
60°-70°	138.2	11.5
70°-80°	78.4	6.5
80°-90°	22.0	1.8
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°	350.3	29.2
0°-40°	562.9	46.9
0°-60°	962.2	80.1
0°-90°	1200.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	464	464	460	464	463	44
15°	442	441	437	440	439	125
25°	400	399	395	396	394	184
35°	345	343	339	337	336	216
45°	282	281	276	272	271	217
55°	214	213	208	203	202	191
65°	144	143	139	136	134	143
75°	76	75	74	73	71	81
85°	20	20	20	19	18	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	465.2	465.2	465.2	465.2	465.2
2.5°	466.2	465.5	462.1	465.5	465.2
5°	464.2	463.5	460.1	463.5	463.2
7.5°	461.1	460.1	456.3	459.7	459.1
10°	456.0	455.3	451.2	453.9	453.9
12.5°	449.8	448.8	444.7	447.1	446.8
15°	442.0	441.3	437.2	439.6	438.6
17.5°	433.8	432.1	428.3	430.4	429.0
20°	423.9	422.5	417.8	419.5	418.8
22.5°	412.6	410.9	406.5	407.5	407.2
25°	400.4	399.0	394.6	395.6	393.9
27.5°	387.7	386.0	381.9	381.9	380.2
30°	374.4	372.7	367.9	367.9	365.2
32.5°	360.1	358.7	352.9	352.6	351.9
35°	345.1	343.0	338.9	336.9	335.8
37.5°	330.0	328.3	323.9	321.2	319.5
40°	314.0	313.0	307.9	305.5	303.1
42.5°	298.3	297.3	291.8	287.7	286.7
45°	281.9	281.2	275.8	271.7	270.7
47.5°	265.5	264.9	259.4	255.0	253.3
50°	247.8	247.8	242.7	238.2	237.2
52.5°	230.7	230.4	225.3	220.8	219.8
55°	213.7	213.3	207.9	203.4	202.4
57.5°	197.6	195.6	190.8	187.4	184.0
60°	179.2	178.2	174.1	169.6	167.9
62.5°	162.1	160.8	156.7	152.9	150.5
65°	144.4	143.4	139.3	136.2	134.5
67.5°	127.7	126.3	122.2	119.8	118.4
70°	109.6	108.5	105.5	102.4	102.1
72.5°	93.5	92.2	90.4	87.7	86.4
75°	76.5	75.1	74.1	72.7	70.7
77.5°	60.1	59.4	58.7	57.7	56.7
80°	44.7	44.7	44.4	43.7	43.3
82.5°	31.7	32.1	31.1	30.4	30.4
85°	19.5	19.5	19.5	18.8	18.4
87.5°	9.6	8.5	8.5	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.46	17.08	15.83	17.39	17.71	15.13	16.74	15.49	17.06	17.37
	3H	17.22	18.68	17.60	19.01	19.37	16.84	18.30	17.22	18.63	18.99
	4H	17.87	19.24	18.27	19.59	19.97	17.48	18.85	17.88	19.20	19.57
	6H	18.33	19.61	18.74	19.97	20.36	17.95	19.23	18.36	19.59	19.98
	8H	18.48	19.70	18.91	20.09	20.48	18.11	19.32	18.53	19.71	20.11
	12H	18.58	19.75	19.01	20.13	20.56	18.21	19.37	18.64	19.75	20.18
4H	2H	16.04	17.41	16.43	17.76	18.13	15.77	17.14	16.17	17.49	17.87
	3H	18.02	19.17	18.43	19.57	19.97	17.70	18.85	18.11	19.25	19.65
	4H	18.79	19.83	19.23	20.25	20.68	18.47	19.51	18.90	19.92	20.36
	6H	19.38	20.29	19.84	20.73	21.19	19.07	19.98	19.52	20.42	20.87
	8H	19.58	20.43	20.04	20.87	21.34	19.27	20.12	19.73	20.56	21.03
	12H	19.73	20.49	20.21	20.97	21.44	19.41	20.18	19.89	20.65	21.12
8H	4H	19.08	19.93	19.54	20.37	20.83	18.79	19.64	19.25	20.08	20.55
	6H	19.78	20.49	20.28	20.98	21.46	19.51	20.22	20.00	20.70	21.18
	8H	20.06	20.69	20.57	21.20	21.68	19.78	20.41	20.29	20.92	21.41
	12H	20.28	20.84	20.78	21.33	21.89	20.00	20.56	20.50	21.05	21.61
12H	4H	19.10	19.87	19.58	20.34	20.81	18.82	19.59	19.30	20.06	20.53
	6H	19.83	20.47	20.34	20.98	21.46	19.57	20.20	20.08	20.71	21.20
	8H	20.16	20.73	20.67	21.22	21.78	19.90	20.46	20.40	20.95	21.51