

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: P242766

Luminaire Tested: S125DRP-S375D927-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S375D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

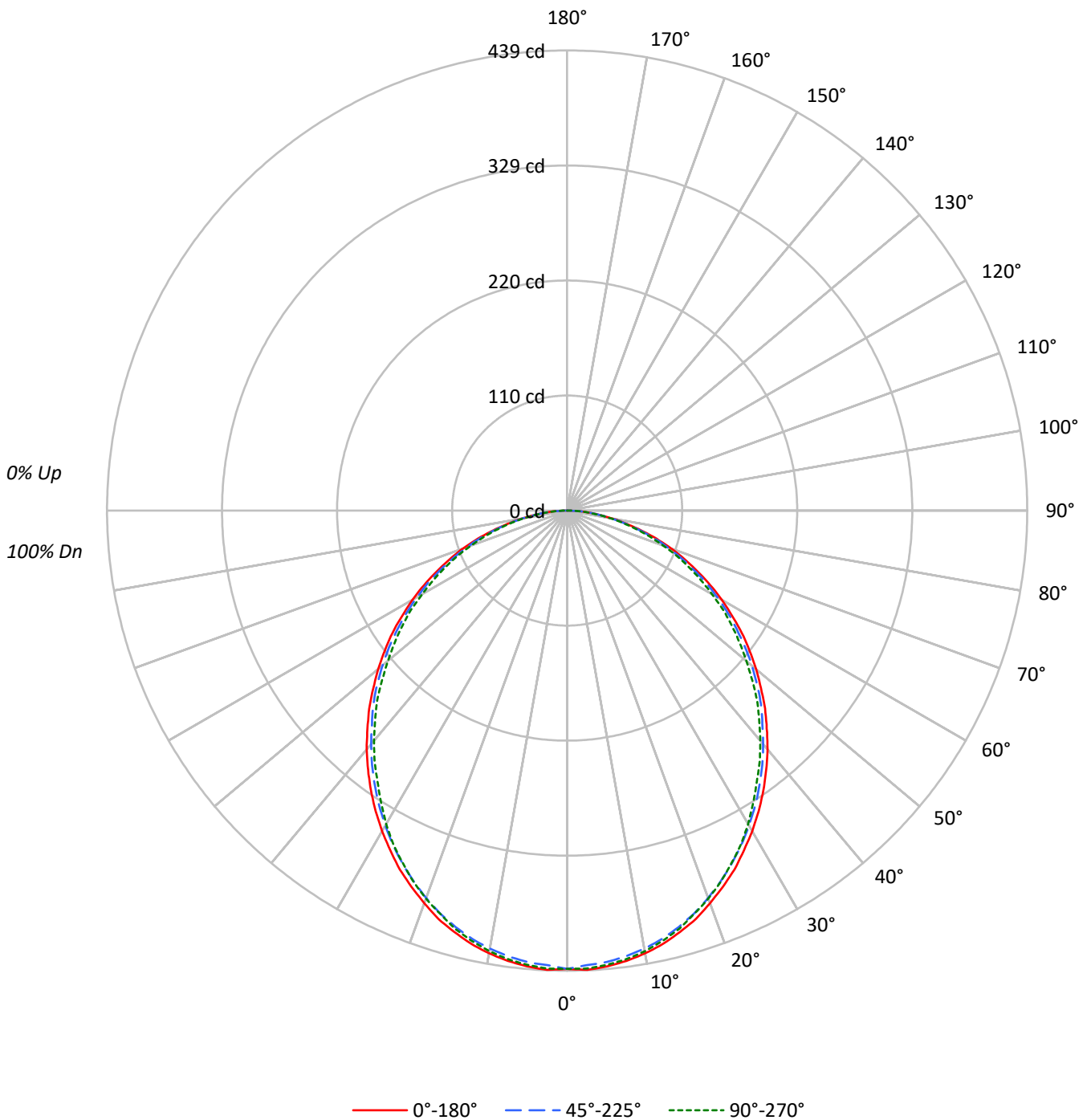
Lumens per Lamp: N/A
Luminaire Lumens: 1137.9 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3107	3107	3107
5°	3114	3085	3104
10°	3095	3063	3080
15°	3062	3026	3039
20°	3014	2975	2980
25°	2962	2913	2910
30°	2898	2847	2833
35°	2830	2776	2737
40°	2760	2699	2660
45°	2684	2628	2576
50°	2601	2543	2467
55°	2520	2447	2379
60°	2424	2350	2267
65°	2309	2233	2158
70°	2199	2099	2026
75°	2005	1939	1870
80°	1785	1756	1715
85°	1549	1582	1492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2684 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	3.6
10°-20°	116.5	10.2
20°-30°	172.0	15.1
30°-40°	200.7	17.6
40°-50°	201.6	17.7
50°-60°	177.0	15.6
60°-70°	131.8	11.6
70°-80°	75.3	6.6
80°-90°	21.7	1.9
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°	329.8	29.0
0°-40°	530.5	46.6
0°-60°	909.1	79.9
0°-90°	1137.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	436	436	432	436	435	41
15°	416	415	411	413	413	117
25°	378	376	372	372	371	174
35°	326	325	320	318	315	204
45°	267	266	262	257	256	206
55°	203	202	198	194	192	182
65°	137	137	133	130	128	136
75°	73	72	71	70	68	78
85°	19	19	19	19	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437.2	437.2	437.2	437.2	437.2
2.5°	438.6	437.5	434.1	437.5	437.2
5°	436.5	435.8	432.4	435.5	435.1
7.5°	433.4	432.7	428.9	432.0	431.7
10°	428.9	428.2	424.4	427.2	426.8
12.5°	423.4	422.0	418.5	420.6	420.6
15°	416.1	415.1	411.3	413.0	413.0
17.5°	408.5	406.8	403.0	405.0	403.3
20°	398.5	397.8	393.3	395.7	394.0
22.5°	388.4	387.0	382.9	384.3	383.2
25°	377.7	376.0	371.5	372.2	371.1
27.5°	365.3	364.2	359.7	360.1	359.0
30°	353.1	352.1	346.9	346.2	345.2
32.5°	340.0	338.3	333.8	332.4	330.3
35°	326.2	324.8	319.9	318.2	315.4
37.5°	312.0	310.3	305.8	303.3	301.6
40°	297.5	295.7	290.9	287.8	286.7
42.5°	281.9	280.5	275.7	272.9	271.2
45°	267.0	265.6	261.5	257.3	256.3
47.5°	250.8	251.1	245.9	241.8	239.4
50°	235.2	234.2	230.0	225.5	223.1
52.5°	219.3	218.6	214.1	210.3	207.5
55°	203.4	202.3	197.5	194.4	192.0
57.5°	186.4	186.1	181.9	177.8	176.7
60°	170.5	169.1	165.3	161.9	159.5
62.5°	153.9	152.9	149.8	146.0	144.2
65°	137.3	136.6	132.8	129.7	128.3
67.5°	121.1	119.7	116.9	114.1	113.5
70°	105.8	104.1	101.0	98.9	97.5
72.5°	89.2	88.2	86.5	84.1	82.7
75°	73.0	72.3	70.6	69.5	68.1
77.5°	57.8	57.4	56.4	55.7	54.6
80°	43.6	43.6	42.9	42.5	41.9
82.5°	31.1	30.4	30.4	29.7	29.7
85°	19.0	19.4	19.4	19.0	18.3
87.5°	9.3	9.3	9.0	9.0	8.3
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	15.29	16.91	15.65	17.22	17.54	14.96	16.58	15.33	16.89	17.21
	3H	17.06	18.52	17.44	18.85	19.21	16.69	18.16	17.07	18.48	18.84
	4H	17.72	19.09	18.11	19.44	19.82	17.34	18.72	17.74	19.06	19.44
	6H	18.19	19.47	18.60	19.83	20.22	17.82	19.10	18.24	19.47	19.86
	8H	18.35	19.57	18.77	19.96	20.36	17.99	19.20	18.41	19.59	19.99
	12H	18.45	19.62	18.88	20.00	20.43	18.10	19.26	18.53	19.65	20.07
4H	2H	15.87	17.24	16.27	17.59	17.97	15.61	16.98	16.01	17.33	17.71
	3H	17.86	19.02	18.27	19.41	19.81	17.56	18.71	17.97	19.11	19.51
	4H	18.65	19.69	19.08	20.11	20.54	18.33	19.38	18.76	19.79	20.23
	6H	19.26	20.17	19.71	20.61	21.07	18.95	19.86	19.40	20.30	20.76
	8H	19.46	20.32	19.92	20.76	21.22	19.16	20.01	19.62	20.45	20.92
	12H	19.61	20.38	20.09	20.86	21.33	19.31	20.08	19.79	20.55	21.02
8H	4H	18.94	19.79	19.40	20.23	20.70	18.66	19.51	19.12	19.95	20.42
	6H	19.67	20.38	20.16	20.86	21.34	19.40	20.11	19.89	20.59	21.07
	8H	19.94	20.58	20.45	21.09	21.57	19.68	20.32	20.19	20.82	21.31
	12H	20.17	20.74	20.68	21.23	21.79	19.91	20.48	20.42	20.97	21.53
12H	4H	18.97	19.73	19.45	20.21	20.68	18.69	19.46	19.17	19.94	20.41
	6H	19.72	20.36	20.23	20.86	21.35	19.46	20.10	19.97	20.60	21.09
	8H	20.05	20.62	20.56	21.11	21.67	19.80	20.36	20.31	20.85	21.42