

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: P242785

Luminaire Tested: S125DRP-S375D930-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242785
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-S375D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

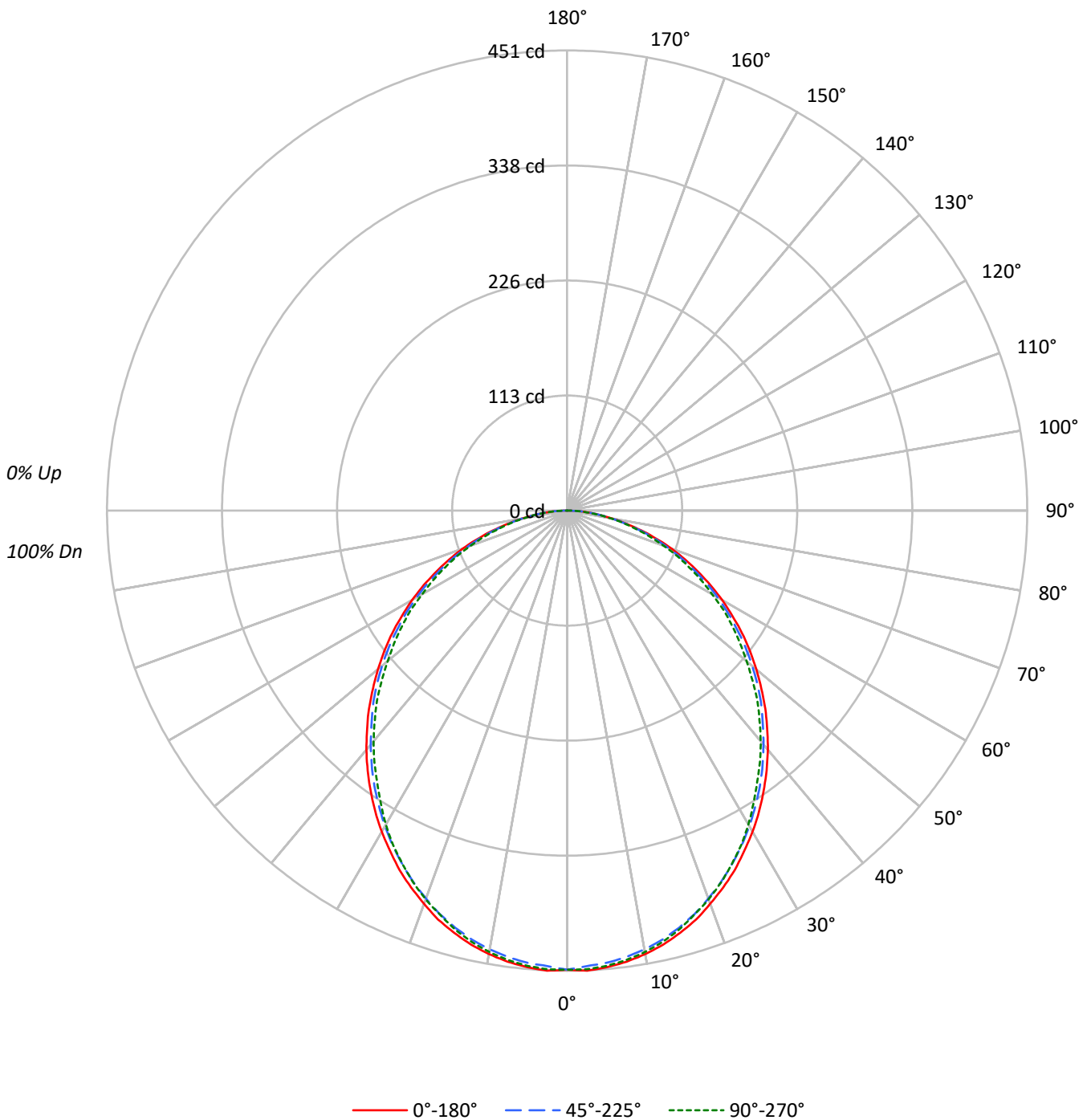
Lumens per Lamp: N/A
Luminaire Lumens: 1171.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (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	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°	3198	3198	3198
5°	3205	3175	3195
10°	3186	3152	3170
15°	3151	3115	3127
20°	3102	3061	3067
25°	3048	2998	2996
30°	2983	2930	2916
35°	2913	2857	2817
40°	2840	2778	2738
45°	2762	2705	2652
50°	2677	2617	2539
55°	2593	2519	2449
60°	2495	2419	2333
65°	2376	2299	2222
70°	2263	2159	2086
75°	2062	1994	1925
80°	1838	1805	1764
85°	1598	1623	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.6
10°-20°	119.9	10.2
20°-30°	177.1	15.1
30°-40°	206.6	17.6
40°-50°	207.5	17.7
50°-60°	182.1	15.6
60°-70°	135.6	11.6
70°-80°	77.5	6.6
80°-90°	22.4	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°	339.4	29.0
0°-40°	546.0	46.6
0°-60°	935.6	79.9
0°-90°	1171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	449	448	445	448	448	43
15°	428	427	423	425	425	121
25°	389	387	382	383	382	179
35°	336	334	329	328	325	210
45°	275	273	269	265	264	212
55°	209	208	203	200	198	187
65°	141	141	137	134	132	140
75°	75	74	73	72	70	80
85°	20	20	20	20	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.0	450.0	450.0	450.0	450.0
2.5°	451.4	450.3	446.8	450.3	450.0
5°	449.2	448.5	445.0	448.2	447.8
7.5°	446.0	445.3	441.4	444.6	444.3
10°	441.4	440.7	436.8	439.6	439.3
12.5°	435.7	434.3	430.7	432.9	432.9
15°	428.2	427.2	423.3	425.0	425.0
17.5°	420.4	418.6	414.7	416.9	415.1
20°	410.1	409.4	404.7	407.2	405.5
22.5°	399.8	398.3	394.1	395.5	394.4
25°	388.7	386.9	382.3	383.0	382.0
27.5°	375.9	374.8	370.2	370.6	369.5
30°	363.5	362.4	357.0	356.3	355.3
32.5°	349.9	348.1	343.5	342.1	340.0
35°	335.7	334.3	329.3	327.5	324.7
37.5°	321.1	319.3	314.7	312.2	310.4
40°	306.1	304.4	299.4	296.2	295.1
42.5°	290.1	288.7	283.7	280.9	279.1
45°	274.8	273.4	269.1	264.8	263.8
47.5°	258.1	258.4	253.1	248.8	246.3
50°	242.1	241.0	236.7	232.1	229.6
52.5°	225.7	225.0	220.4	216.4	213.6
55°	209.3	208.2	203.3	200.1	197.6
57.5°	191.9	191.5	187.2	183.0	181.9
60°	175.5	174.1	170.2	166.6	164.1
62.5°	158.4	157.3	154.1	150.2	148.4
65°	141.3	140.6	136.7	133.5	132.1
67.5°	124.6	123.2	120.3	117.5	116.8
70°	108.9	107.1	103.9	101.8	100.4
72.5°	91.8	90.8	89.0	86.5	85.1
75°	75.1	74.4	72.6	71.6	70.1
77.5°	59.4	59.1	58.0	57.3	56.2
80°	44.9	44.9	44.1	43.8	43.1
82.5°	32.0	31.3	31.3	30.6	30.6
85°	19.6	19.9	19.9	19.6	18.9
87.5°	9.6	9.6	9.3	9.3	8.5
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	15.39	17.01	15.75	17.32	17.63	15.06	16.68	15.43	16.99	17.31
	3H	17.16	18.62	17.53	18.95	19.31	16.79	18.26	17.17	18.58	18.94
	4H	17.81	19.19	18.21	19.54	19.92	17.44	18.82	17.84	19.16	19.54
	6H	18.29	19.57	18.70	19.93	20.32	17.93	19.20	18.34	19.57	19.96
	8H	18.45	19.67	18.87	20.06	20.45	18.09	19.31	18.51	19.69	20.09
	12H	18.55	19.72	18.98	20.10	20.53	18.20	19.37	18.63	19.75	20.18
4H	2H	15.97	17.34	16.36	17.69	18.07	15.71	17.09	16.11	17.43	17.81
	3H	17.96	19.12	18.37	19.51	19.91	17.66	18.81	18.07	19.21	19.61
	4H	18.75	19.79	19.18	20.21	20.64	18.43	19.48	18.87	19.89	20.33
	6H	19.36	20.27	19.81	20.71	21.17	19.05	19.96	19.50	20.40	20.86
	8H	19.56	20.42	20.02	20.86	21.32	19.26	20.11	19.72	20.55	21.02
	12H	19.71	20.48	20.19	20.96	21.43	19.41	20.18	19.89	20.66	21.13
8H	4H	19.03	19.89	19.50	20.33	20.80	18.76	19.61	19.22	20.05	20.52
	6H	19.76	20.47	20.26	20.96	21.44	19.50	20.21	19.99	20.70	21.17
	8H	20.04	20.68	20.55	21.19	21.67	19.78	20.42	20.29	20.92	21.41
	12H	20.27	20.84	20.78	21.33	21.89	20.01	20.58	20.52	21.07	21.63
12H	4H	19.06	19.83	19.54	20.31	20.78	18.79	19.56	19.27	20.04	20.51
	6H	19.82	20.46	20.33	20.96	21.45	19.56	20.20	20.07	20.70	21.19
	8H	20.15	20.72	20.66	21.21	21.77	19.90	20.47	20.41	20.96	21.52