

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: P243650

Luminaire Tested: S125DRP-H375D935-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243650
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-H375D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

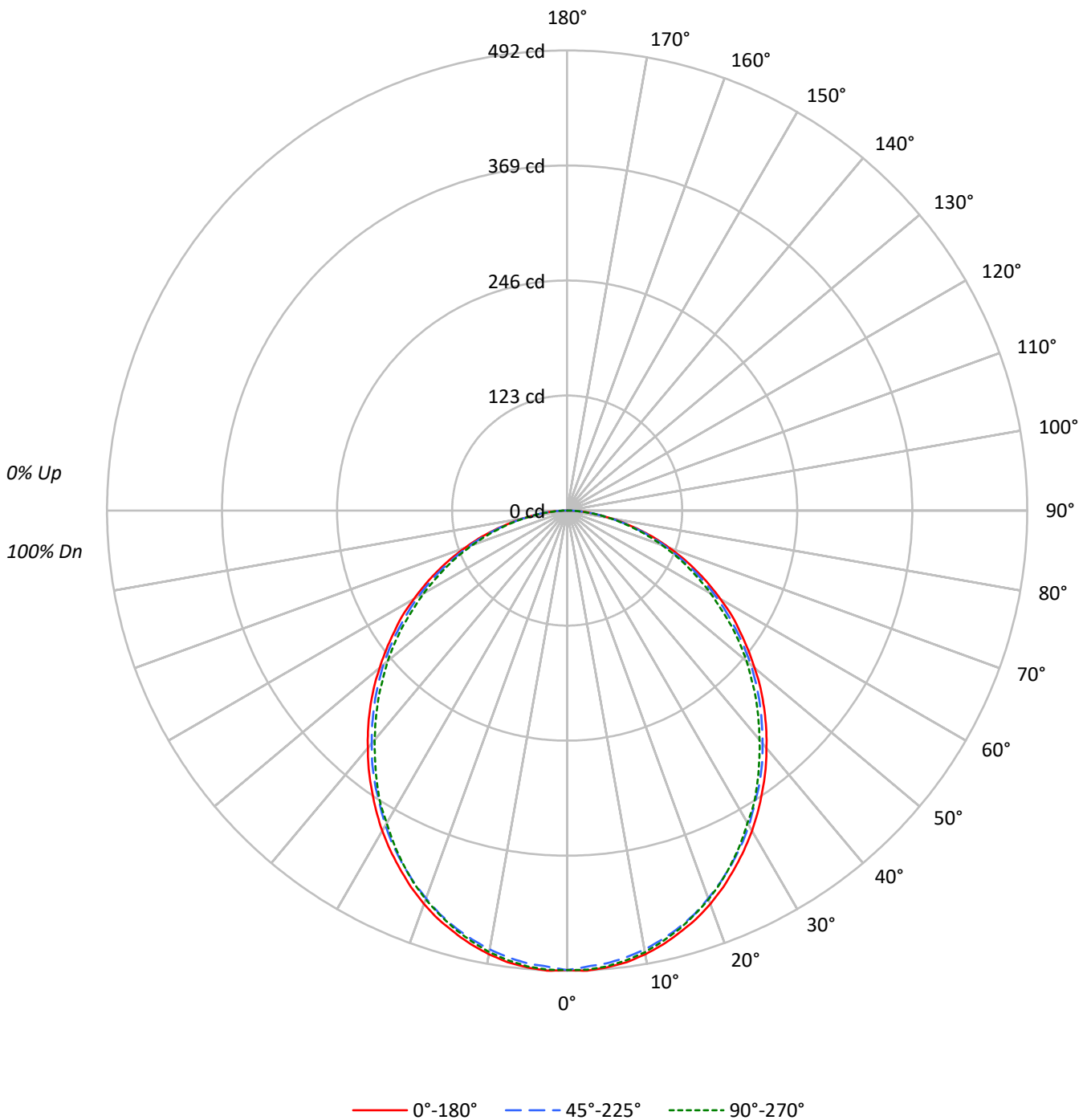
Lumens per Lamp: N/A
Luminaire Lumens: 1268.1 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

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	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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3492	3492	3492
5°	3497	3467	3489
10°	3476	3439	3460
15°	3435	3397	3408
20°	3386	3337	3345
25°	3316	3268	3262
30°	3245	3189	3165
35°	3162	3105	3078
40°	3077	3016	2970
45°	2992	2927	2873
50°	2894	2834	2770
55°	2795	2720	2648
60°	2689	2613	2520
65°	2565	2474	2388
70°	2404	2315	2240
75°	2216	2147	2049
80°	1932	1920	1875
85°	1672	1672	1590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2992 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.7
10°-20°	130.8	10.3
20°-30°	192.8	15.2
30°-40°	224.5	17.7
40°-50°	225.0	17.7
50°-60°	196.7	15.5
60°-70°	146.0	11.5
70°-80°	82.8	6.5
80°-90°	23.2	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°	370.0	29.2
0°-40°	594.5	46.9
0°-60°	1016.2	80.1
0°-90°	1268.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	490	490	486	490	489	47
15°	467	466	462	464	463	132
25°	423	421	417	418	416	195
35°	364	362	358	356	355	228
45°	298	297	291	287	286	230
55°	226	225	220	215	214	202
65°	152	151	147	144	142	151
75°	81	79	78	77	75	86
85°	20	20	20	20	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.3	491.3	491.3	491.3	491.3
2.5°	492.4	491.6	488.0	491.6	491.3
5°	490.2	489.5	485.9	489.5	489.1
7.5°	487.0	485.9	481.9	485.5	484.8
10°	481.6	480.8	476.5	479.4	479.4
12.5°	475.1	474.0	469.7	472.2	471.8
15°	466.8	466.1	461.7	464.2	463.2
17.5°	458.1	456.3	452.4	454.5	453.1
20°	447.7	446.2	441.2	443.0	442.3
22.5°	435.8	434.0	429.3	430.4	430.0
25°	422.8	421.4	416.7	417.8	416.0
27.5°	409.5	407.7	403.3	403.3	401.5
30°	395.4	393.6	388.6	388.6	385.7
32.5°	380.3	378.8	372.7	372.3	371.6
35°	364.4	362.2	357.9	355.8	354.7
37.5°	348.5	346.7	342.1	339.2	337.4
40°	331.6	330.5	325.1	322.6	320.1
42.5°	315.0	313.9	308.2	303.9	302.8
45°	297.7	297.0	291.2	286.9	285.8
47.5°	280.4	279.7	273.9	269.3	267.4
50°	261.7	261.7	256.3	251.6	250.5
52.5°	243.7	243.3	237.9	233.2	232.1
55°	225.6	225.3	219.5	214.8	213.7
57.5°	208.7	206.5	201.5	197.9	194.3
60°	189.2	188.2	183.8	179.1	177.3
62.5°	171.2	169.8	165.4	161.5	159.0
65°	152.5	151.4	147.1	143.8	142.0
67.5°	134.8	133.4	129.0	126.5	125.1
70°	115.7	114.6	111.4	108.1	107.8
72.5°	98.8	97.3	95.5	92.6	91.2
75°	80.7	79.3	78.2	76.8	74.6
77.5°	63.4	62.7	62.0	60.9	59.8
80°	47.2	47.2	46.9	46.1	45.8
82.5°	33.5	33.9	32.8	32.1	32.1
85°	20.5	20.5	20.5	19.8	19.5
87.5°	10.1	9.0	9.0	8.3	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	15.65	17.27	16.02	17.58	17.89	15.32	16.93	15.68	17.25	17.56
	3H	17.41	18.87	17.79	19.20	19.56	17.03	18.49	17.41	18.81	19.18
	4H	18.06	19.43	18.46	19.78	20.16	17.67	19.04	18.07	19.39	19.76
	6H	18.52	19.79	18.93	20.16	20.55	18.14	19.41	18.55	19.78	20.17
	8H	18.67	19.88	19.09	20.27	20.67	18.30	19.51	18.72	19.90	20.30
	12H	18.77	19.93	19.20	20.32	20.74	18.40	19.56	18.83	19.94	20.37
4H	2H	16.22	17.60	16.62	17.95	18.32	15.96	17.33	16.36	17.68	18.06
	3H	18.21	19.36	18.62	19.75	20.15	17.89	19.04	18.30	19.44	19.84
	4H	18.98	20.02	19.41	20.44	20.87	18.66	19.70	19.09	20.11	20.55
	6H	19.57	20.48	20.03	20.92	21.38	19.26	20.17	19.71	20.61	21.06
	8H	19.77	20.62	20.23	21.06	21.53	19.46	20.31	19.92	20.75	21.21
	12H	19.91	20.68	20.39	21.15	21.62	19.60	20.37	20.08	20.84	21.31
8H	4H	19.26	20.12	19.73	20.56	21.02	18.98	19.83	19.44	20.27	20.74
	6H	19.97	20.68	20.47	21.17	21.64	19.70	20.40	20.19	20.89	21.37
	8H	20.25	20.88	20.76	21.39	21.87	19.97	20.60	20.48	21.11	21.60
	12H	20.47	21.03	20.97	21.52	22.08	20.19	20.75	20.69	21.24	21.80
12H	4H	19.29	20.06	19.77	20.53	21.00	19.01	19.78	19.49	20.25	20.72
	6H	20.02	20.66	20.53	21.16	21.65	19.76	20.39	20.27	20.90	21.38
	8H	20.35	20.91	20.86	21.40	21.96	20.09	20.65	20.59	21.14	21.70