

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: P243654

Luminaire Tested: S125DRP-H1270D935-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243654
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-H1270D935-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

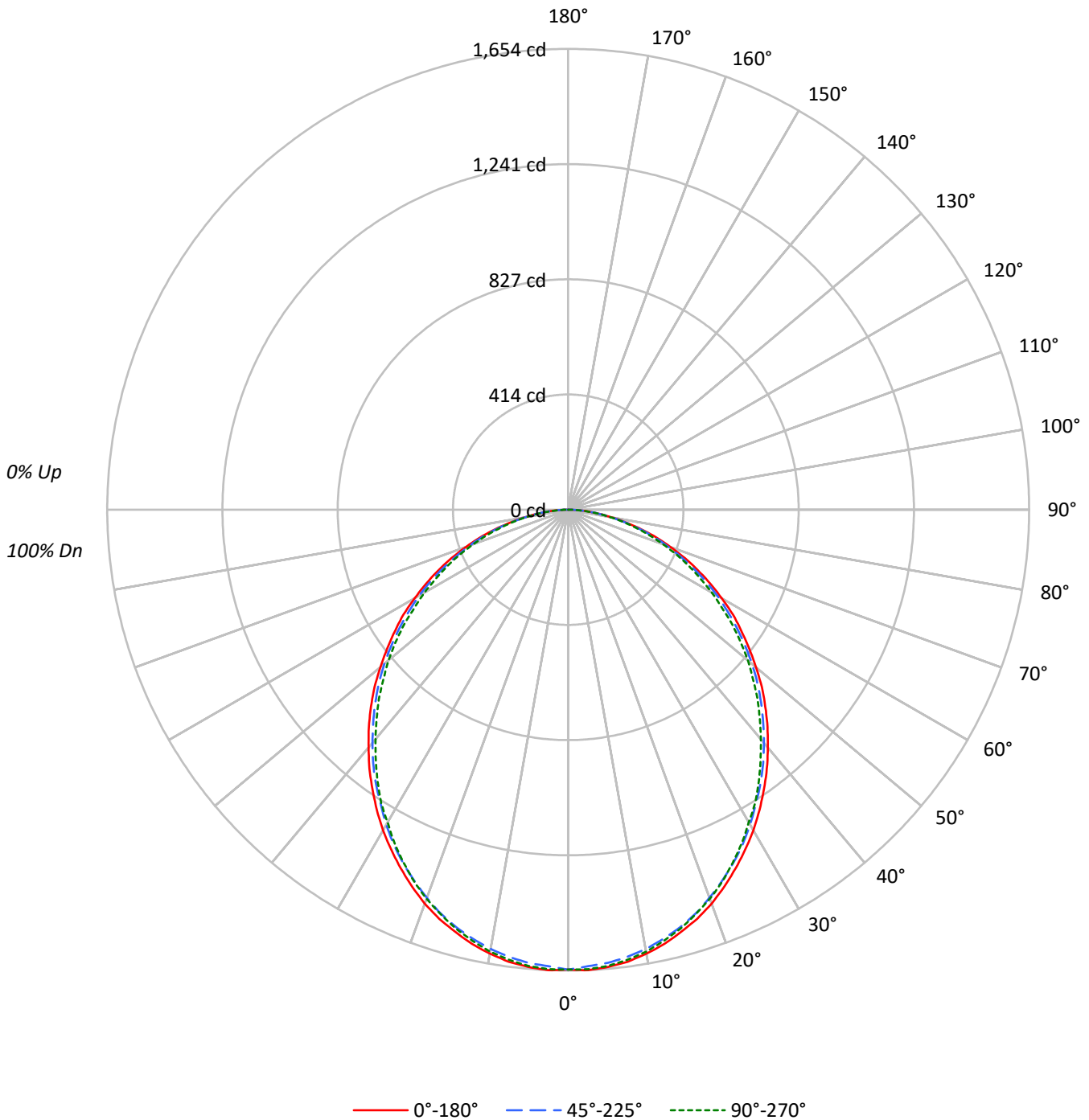
Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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																												
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°	11732	11732	11732
5°	11751	11648	11726
10°	11677	11555	11625
15°	11540	11415	11451
20°	11377	11212	11239
25°	11140	10979	10960
30°	10904	10715	10635
35°	10623	10434	10340
40°	10338	10135	9978
45°	10055	9836	9653
50°	9722	9521	9307
55°	9394	9140	8899
60°	9038	8780	8471
65°	8616	8309	8025
70°	8079	7776	7525
75°	7450	7217	6884
80°	6496	6442	6295
85°	5627	5627	5333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.7
10°-20°	439.5	10.3
20°-30°	647.8	15.2
30°-40°	754.4	17.7
40°-50°	756.0	17.7
50°-60°	660.9	15.5
60°-70°	490.5	11.5
70°-80°	278.2	6.5
80°-90°	78.0	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°	1243.0	29.2
0°-40°	1997.5	46.9
0°-60°	3414.4	80.1
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1647	1645	1633	1645	1644	156
15°	1568	1566	1551	1560	1556	442
25°	1421	1416	1400	1404	1398	655
35°	1224	1217	1203	1195	1192	766
45°	1000	998	979	964	960	772
55°	758	757	738	722	718	679
65°	512	509	494	483	477	508
75°	271	266	263	258	251	287
85°	69	69	69	67	65	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.7	1650.7	1650.7	1650.7	1650.7
2.5°	1654.4	1651.9	1639.8	1651.9	1650.7
5°	1647.1	1644.7	1632.6	1644.7	1643.5
7.5°	1636.2	1632.6	1619.2	1631.4	1628.9
10°	1618.0	1615.6	1601.1	1610.8	1610.8
12.5°	1596.2	1592.6	1578.1	1586.5	1585.3
15°	1568.4	1566.0	1551.4	1559.9	1556.3
17.5°	1539.3	1533.3	1519.9	1527.2	1522.4
20°	1504.2	1499.3	1482.4	1488.4	1486.0
22.5°	1464.2	1458.2	1442.4	1446.1	1444.8
25°	1420.6	1415.8	1400.0	1403.7	1397.6
27.5°	1375.8	1369.8	1355.2	1355.2	1349.2
30°	1328.6	1322.5	1305.6	1305.6	1295.9
32.5°	1277.7	1272.9	1252.3	1251.1	1248.6
35°	1224.4	1217.2	1202.6	1195.4	1191.7
37.5°	1171.1	1165.1	1149.3	1139.6	1133.6
40°	1114.2	1110.6	1092.4	1083.9	1075.5
42.5°	1058.5	1054.9	1035.5	1021.0	1017.3
45°	1000.4	997.9	978.6	964.0	960.4
47.5°	942.2	939.8	920.4	904.7	898.6
50°	879.3	879.3	861.1	845.3	841.7
52.5°	818.7	817.5	799.3	783.6	779.9
55°	758.1	756.9	737.6	721.8	718.2
57.5°	701.2	694.0	677.0	664.9	652.8
60°	635.8	632.2	617.7	601.9	595.9
62.5°	575.3	570.4	555.9	542.6	534.1
65°	512.3	508.7	494.1	483.2	477.2
67.5°	453.0	448.1	433.6	425.1	420.3
70°	388.8	385.1	374.2	363.3	362.1
72.5°	331.8	327.0	320.9	311.3	306.4
75°	271.3	266.4	262.8	258.0	250.7
77.5°	213.2	210.7	208.3	204.7	201.0
80°	158.7	158.7	157.4	155.0	153.8
82.5°	112.6	113.8	110.2	107.8	107.8
85°	69.0	69.0	69.0	66.6	65.4
87.5°	33.9	30.3	30.3	27.9	27.9
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	19.86	21.48	20.23	21.79	22.11	19.53	21.14	19.89	21.46	21.77
	3H	21.62	23.08	22.00	23.41	23.77	21.24	22.70	21.62	23.03	23.39
	4H	22.27	23.64	22.67	23.99	24.37	21.88	23.25	22.28	23.60	23.97
	6H	22.73	24.01	23.14	24.37	24.76	22.35	23.62	22.76	23.99	24.38
	8H	22.88	24.10	23.31	24.49	24.88	22.51	23.72	22.93	24.11	24.51
	12H	22.98	24.15	23.41	24.53	24.96	22.61	23.77	23.04	24.15	24.58
4H	2H	20.44	21.81	20.83	22.16	22.53	20.17	21.54	20.57	21.89	22.27
	3H	22.42	23.57	22.83	23.96	24.36	22.10	23.25	22.51	23.65	24.05
	4H	23.19	24.23	23.62	24.65	25.08	22.87	23.91	23.30	24.32	24.76
	6H	23.78	24.69	24.24	25.13	25.59	23.47	24.38	23.92	24.82	25.27
	8H	23.98	24.83	24.44	25.27	25.74	23.67	24.52	24.13	24.96	25.43
	12H	24.13	24.89	24.61	25.37	25.84	23.81	24.58	24.29	25.05	25.52
8H	4H	23.48	24.33	23.94	24.77	25.23	23.19	24.04	23.65	24.48	24.95
	6H	24.18	24.89	24.68	25.38	25.85	23.91	24.62	24.40	25.10	25.58
	8H	24.46	25.09	24.97	25.60	26.08	24.18	24.81	24.69	25.32	25.81
	12H	24.68	25.24	25.18	25.73	26.29	24.40	24.96	24.90	25.45	26.01
12H	4H	23.50	24.27	23.98	24.74	25.21	23.22	23.99	23.70	24.46	24.93
	6H	24.23	24.87	24.74	25.38	25.86	23.97	24.60	24.48	25.11	25.59
	8H	24.56	25.12	25.07	25.61	26.18	24.30	24.86	24.80	25.35	25.91