

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P243654

Luminaire Tested: **S125DR-H1270D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
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 (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-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: ELECTRONIC 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

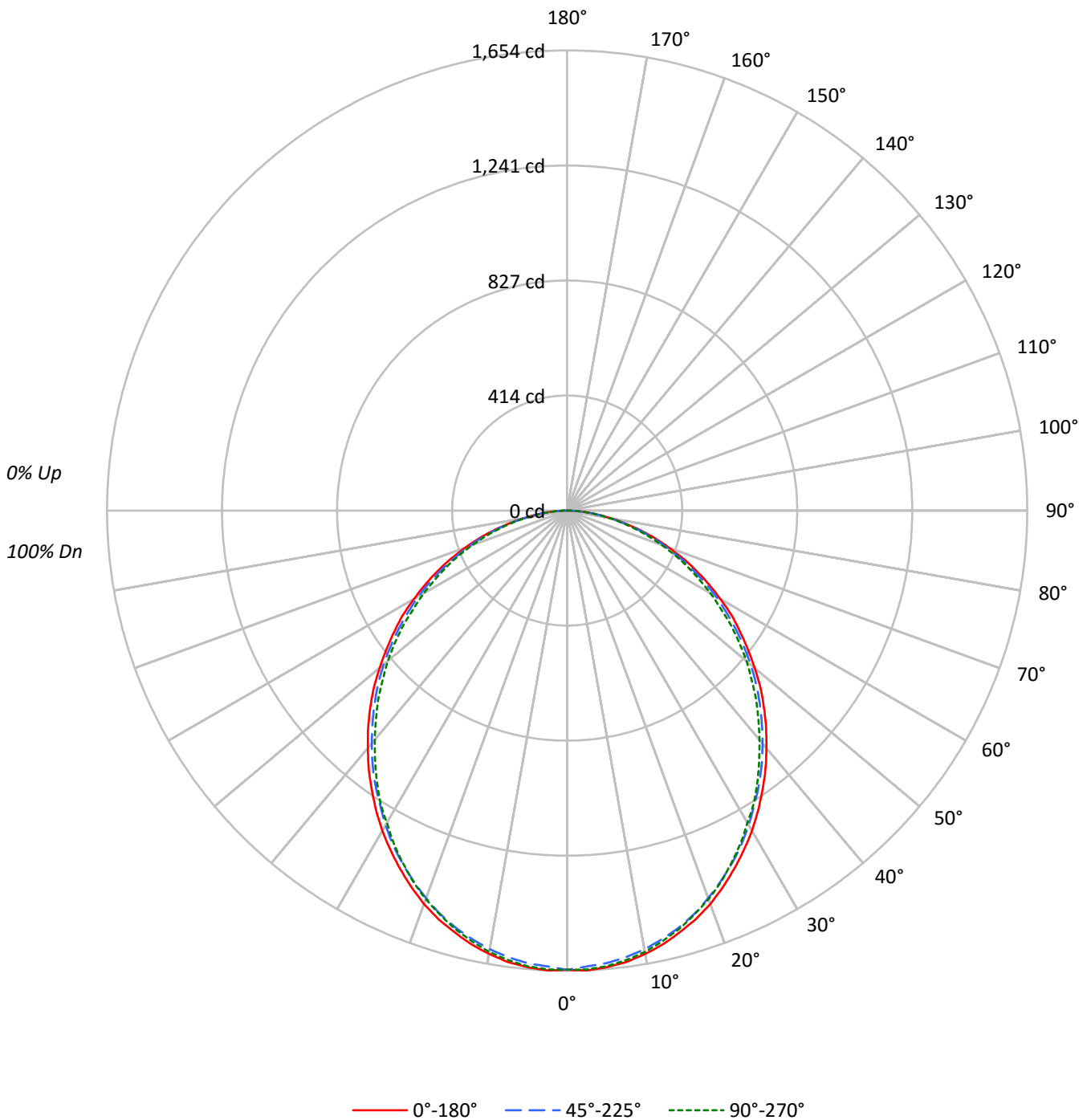
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243654

CATALOG NUMBER: S125DR-H1270D935-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P243654

CATALOG NUMBER: S125DR-H1270D935-X4F0-XX-UDD-F-W

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°	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



TEST NUMBER: P243654

CATALOG NUMBER: S125DR-H1270D935-X4F0-XX-UDD-F-W

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	



TEST NUMBER: P243654

CATALOG NUMBER: S125DR-H1270D935-X4F0-XX-UDD-F-W

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

(END OF REPORT)