

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1028449

Luminaire Tested: S125RDIP-B1090D1270UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028449
REPORT IS A COMBINATION OF REPORTS P1004964 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB27-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

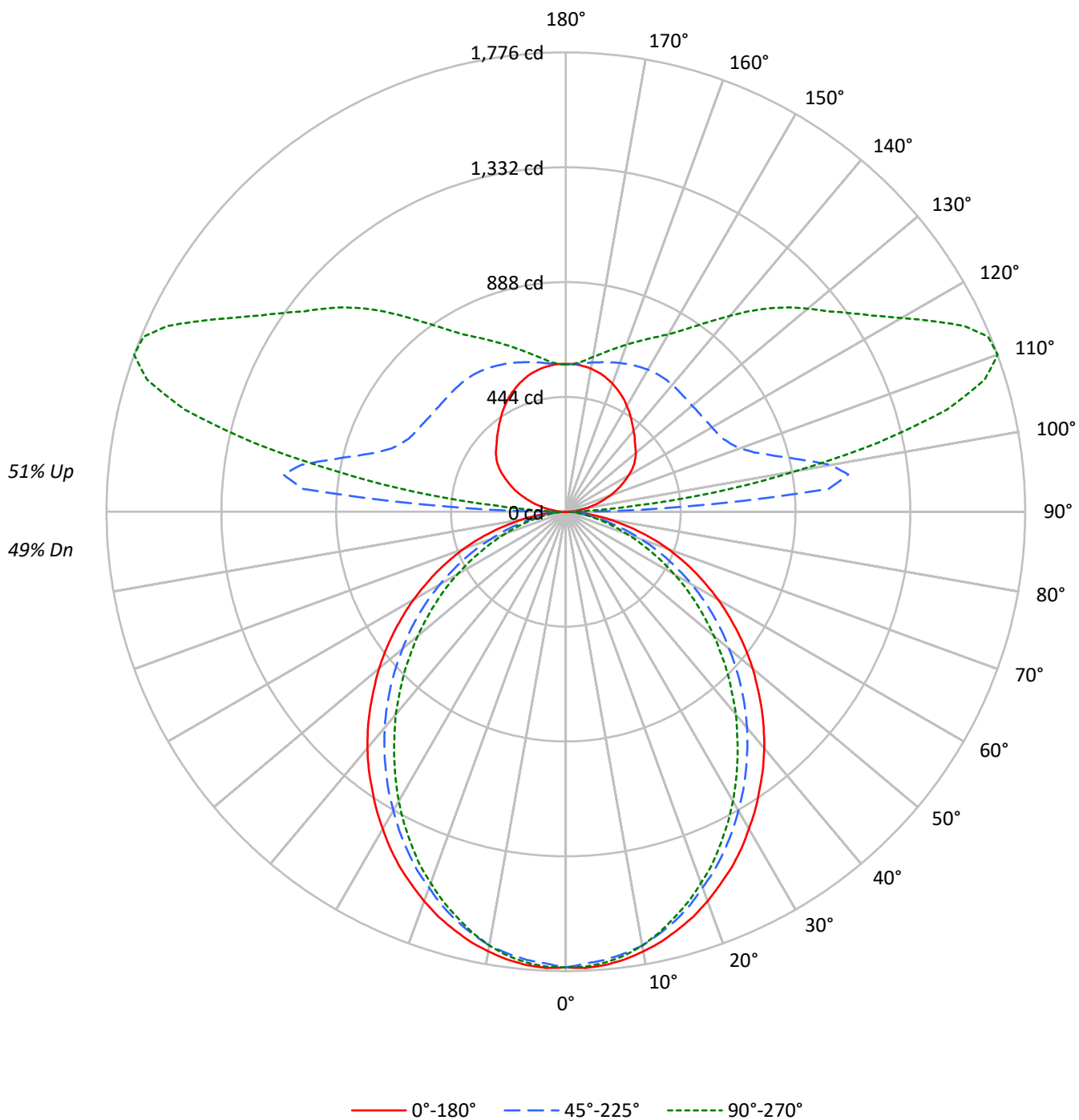
Lumens per Lamp: N/A
Luminaire Lumens: 8461.8 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	25	23
7	59	46	38	33	54	43	36	31	37	32	28	31	27	24	26	23	20
8	54	42	34	29	50	39	32	28	34	28	24	29	25	21	24	21	18
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11288	11005	11023
10°	11178	10728	10633
15°	11019	10340	10121
20°	10824	9873	9584
25°	10599	9417	9008
30°	10325	8915	8403
35°	10044	8406	7760
40°	9777	7883	7133
45°	9456	7319	6475
50°	9130	6720	5806
55°	8753	6129	5113
60°	8367	5454	4394
65°	7907	4700	3619
70°	7369	3827	2848
75°	6627	2877	2075
80°	5591	1864	1399
85°	4185	1002	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	2.0
10°-20°	463.3	5.5
20°-30°	671.8	7.9
30°-40°	765.4	9.0
40°-50°	746.0	8.8
50°-60°	627.8	7.4
60°-70°	440.0	5.2
70°-80°	225.6	2.7
80°-90°	58.5	0.7
90°-100°	430.0	5.1
100°-110°	893.1	10.6
110°-120°	834.2	9.9
120°-130°	675.0	8.0
130°-140°	542.4	6.4
140°-150°	409.4	4.8
150°-160°	288.2	3.4
160°-170°	169.9	2.0
170°-180°	55.2	0.7
0°-30°	1300.9	15.4
0°-40°	2066.3	24.4
0°-60°	3440.2	40.7
0°-90°	4164.3	49.2
90°-120°	2157.3	25.5
90°-150°	3784.1	44.7
90°-180°	4298.0	50.8
0°-180°	8461.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1759	1754	1739	1752	1750	167
15°	1672	1664	1636	1635	1623	472
25°	1517	1497	1448	1430	1416	698
35°	1307	1275	1215	1176	1158	818
45°	1070	1031	958	905	885	825
55°	812	769	694	635	613	726
65°	550	504	434	380	361	544
75°	293	253	197	168	158	309
85°	73	49	43	41	40	80
90°	1	10	18	24	26	7
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1765.6	1761.6	1748.3	1761.6	1760.3
5°	1758.9	1753.6	1739.0	1752.3	1749.6
7.5°	1745.6	1740.3	1723.0	1733.6	1731.0
10°	1725.7	1721.7	1703.0	1707.0	1703.0
12.5°	1703.0	1697.7	1671.1	1673.8	1667.1
15°	1672.4	1664.5	1636.5	1635.2	1623.2
17.5°	1640.5	1628.5	1595.3	1588.6	1579.3
20°	1601.9	1588.6	1546.0	1539.4	1527.4
22.5°	1559.3	1546.0	1500.8	1486.2	1476.9
25°	1516.8	1496.8	1447.6	1430.3	1415.7
27.5°	1468.9	1444.9	1393.0	1370.4	1355.8
30°	1415.7	1390.4	1334.5	1303.9	1291.9
32.5°	1363.8	1333.2	1276.0	1241.4	1225.4
35°	1306.6	1274.6	1214.7	1176.2	1157.5
37.5°	1252.0	1213.4	1152.2	1107.0	1088.4
40°	1193.5	1153.5	1089.7	1039.1	1023.2
42.5°	1132.3	1091.0	1024.5	976.6	951.3
45°	1069.7	1031.1	958.0	904.7	884.8
47.5°	1004.5	964.6	891.4	836.9	814.3
50°	943.3	899.4	823.6	767.7	747.7
52.5°	876.8	831.6	761.0	699.8	679.9
55°	811.6	769.0	694.5	634.6	613.4
57.5°	745.1	699.8	628.0	569.5	550.8
60°	681.2	634.6	562.8	504.3	484.3
62.5°	613.4	569.5	496.3	443.1	423.1
65°	549.5	504.3	433.7	380.5	360.6
67.5°	485.6	440.4	372.5	322.0	306.0
70°	420.4	375.2	308.7	267.4	251.5
72.5°	356.6	312.7	251.5	214.2	204.9
75°	292.7	252.8	196.9	167.6	158.3
77.5°	227.5	195.6	149.0	126.4	118.4
80°	173.0	141.0	103.8	91.8	89.1
82.5°	119.7	91.8	69.2	65.2	63.9
85°	73.2	49.2	42.6	41.2	39.9
87.5°	30.6	21.3	20.0	20.0	18.6
90°	1.2	10.4	18.4	24.2	26.5
92.5°	17.3	94.4	459.3	122.6	85.2
95°	38.0	112.2	1020.0	462.8	270.5
97.5°	58.7	121.4	1101.7	835.8	592.9
100°	80.6	139.3	1039.5	1181.2	897.9
102.5°	104.8	159.4	930.2	1473.5	1238.7
105°	130.1	181.9	834.6	1643.4	1525.3
107.5°	154.3	205.5	763.2	1691.1	1698.0
110°	180.7	230.2	716.0	1645.6	1776.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.2	255.0	688.4	1550.6	1767.1
115°	232.5	280.3	670.0	1444.2	1699.2
117.5°	255.6	306.2	659.6	1347.5	1596.7
120°	278.6	331.0	652.7	1266.4	1497.7
122.5°	302.8	355.2	647.0	1201.3	1410.2
125°	322.3	377.6	642.4	1148.9	1338.8
127.5°	338.5	399.4	640.1	1104.0	1273.2
130°	353.4	420.2	637.8	1058.5	1221.4
132.5°	364.9	438.6	637.8	1009.6	1169.6
135°	377.6	454.2	637.8	963.0	1112.1
137.5°	393.7	468.6	638.9	914.0	1052.2
140°	407.5	480.6	640.1	869.2	988.9
142.5°	423.6	492.1	641.2	830.6	930.2
145°	439.8	503.6	640.1	797.2	877.2
147.5°	457.0	514.0	637.8	768.4	830.0
150°	472.0	523.2	634.3	744.8	792.0
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)