

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: P1028479

Luminaire Tested: S125RDIP-B1090D375UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028479
REPORT IS A COMBINATION OF REPORTS P1005004 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB27-4F0-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

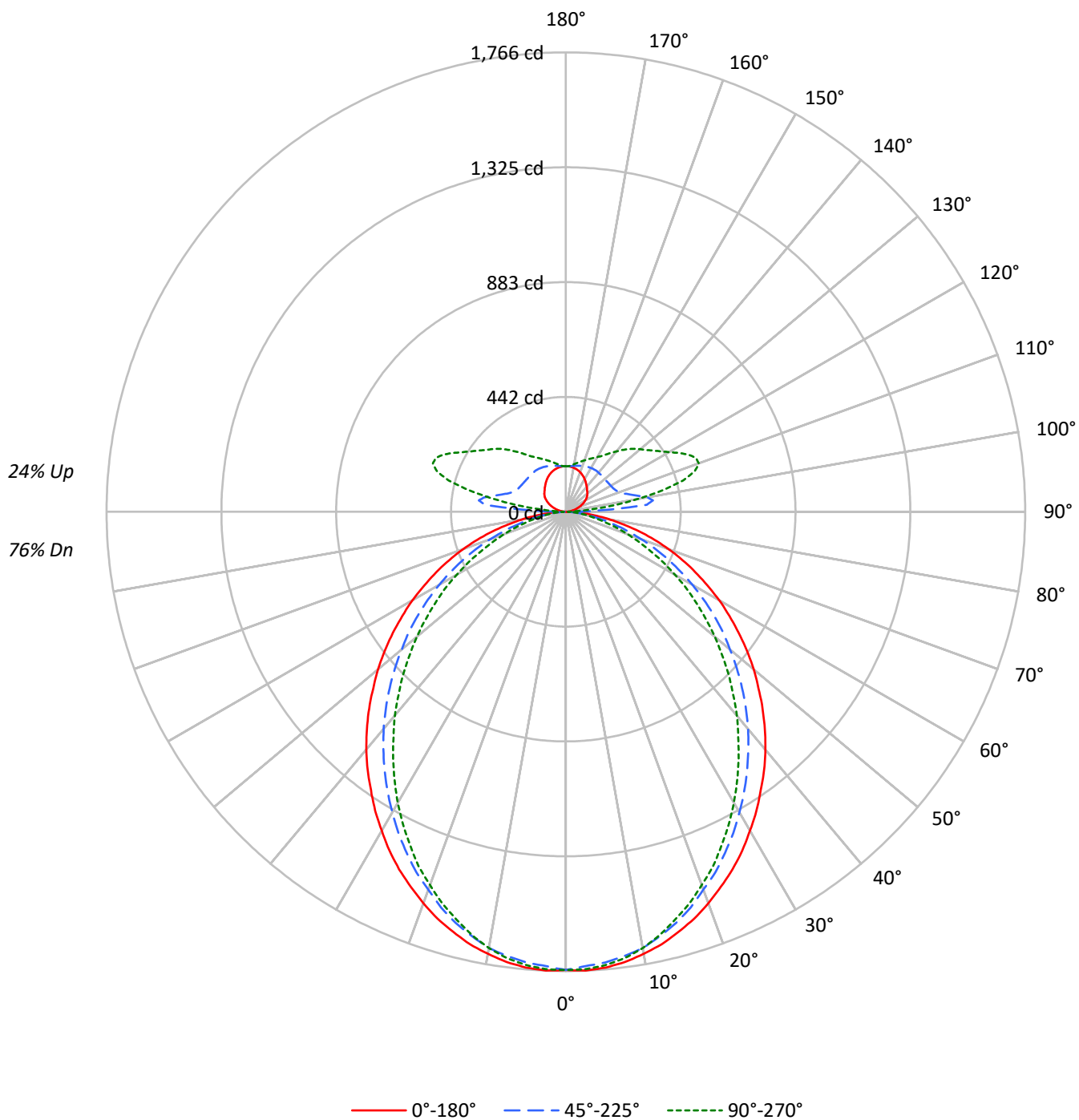
Lumens per Lamp: N/A
Luminaire Lumens: 5478.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	104	100	96	92	99	95	92	88	86	84	81	79	77	75	71	70	68
2	95	87	81	76	90	84	78	73	76	72	68	69	66	63	63	60	58
3	87	77	70	64	82	74	67	62	67	62	57	62	57	54	56	53	50
4	80	69	60	54	76	66	58	53	60	54	49	55	50	46	50	46	43
5	73	61	53	47	70	59	51	46	54	48	43	50	44	40	46	41	38
6	68	55	47	41	64	53	46	40	49	43	38	45	40	36	42	37	33
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30
8	59	46	38	32	56	44	37	32	41	35	30	38	32	28	35	30	27
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22

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	3.0
10°-20°	463.3	8.5
20°-30°	671.8	12.3
30°-40°	765.4	14.0
40°-50°	746.0	13.6
50°-60°	627.8	11.5
60°-70°	440.0	8.0
70°-80°	225.6	4.1
80°-90°	57.0	1.0
90°-100°	131.7	2.4
100°-110°	273.5	5.0
110°-120°	255.5	4.7
120°-130°	206.7	3.8
130°-140°	166.1	3.0
140°-150°	125.4	2.3
150°-160°	88.3	1.6
160°-170°	52.0	0.9
170°-180°	16.9	0.3
0°-30°	1300.9	23.7
0°-40°	2066.3	37.7
0°-60°	3440.2	62.8
0°-90°	4162.7	76.0
90°-120°	660.6	12.1
90°-150°	1158.8	21.2
90°-180°	1316.0	24.0
0°-180°	5478.7	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°	0	3	6	7	8	5
95°	12	34	312	142	83	12
105°	40	56	256	503	467	42
115°	71	86	205	442	520	70
125°	99	116	197	352	410	88
135°	116	139	195	295	340	90
145°	135	154	196	244	269	84
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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°	0.4	3.2	5.6	7.4	8.1
92.5°	5.3	29.0	140.7	37.6	26.1
95°	11.6	34.3	312.3	141.7	82.8
97.5°	18.0	37.2	337.4	256.0	181.5
100°	24.7	42.6	318.3	361.7	275.0
102.5°	32.1	48.8	284.8	451.2	379.3
105°	39.8	55.7	255.6	503.2	467.1
107.5°	47.2	62.9	233.7	517.8	520.0
110°	55.3	70.5	219.3	503.9	543.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.5	78.1	210.8	474.8	541.1
115°	71.2	85.8	205.2	442.2	520.3
117.5°	78.3	93.8	202.0	412.6	488.9
120°	85.3	101.4	199.9	387.8	458.6
122.5°	92.7	108.8	198.1	367.8	431.8
125°	98.7	115.6	196.7	351.8	410.0
127.5°	103.6	122.3	196.0	338.1	389.9
130°	108.2	128.7	195.3	324.2	374.0
132.5°	111.7	134.3	195.3	309.2	358.2
135°	115.6	139.0	195.3	294.8	340.5
137.5°	120.6	143.4	195.7	279.9	322.2
140°	124.8	147.2	196.0	266.2	302.8
142.5°	129.7	150.7	196.4	254.4	284.8
145°	134.7	154.2	196.0	244.2	268.6
147.5°	140.0	157.4	195.3	235.3	254.2
150°	144.5	160.2	194.2	228.1	242.5
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)