

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: P1028485

Luminaire Tested: S125RDIP-B1090D375UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028485
REPORT IS A COMBINATION OF REPORTS P1005020 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB30-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

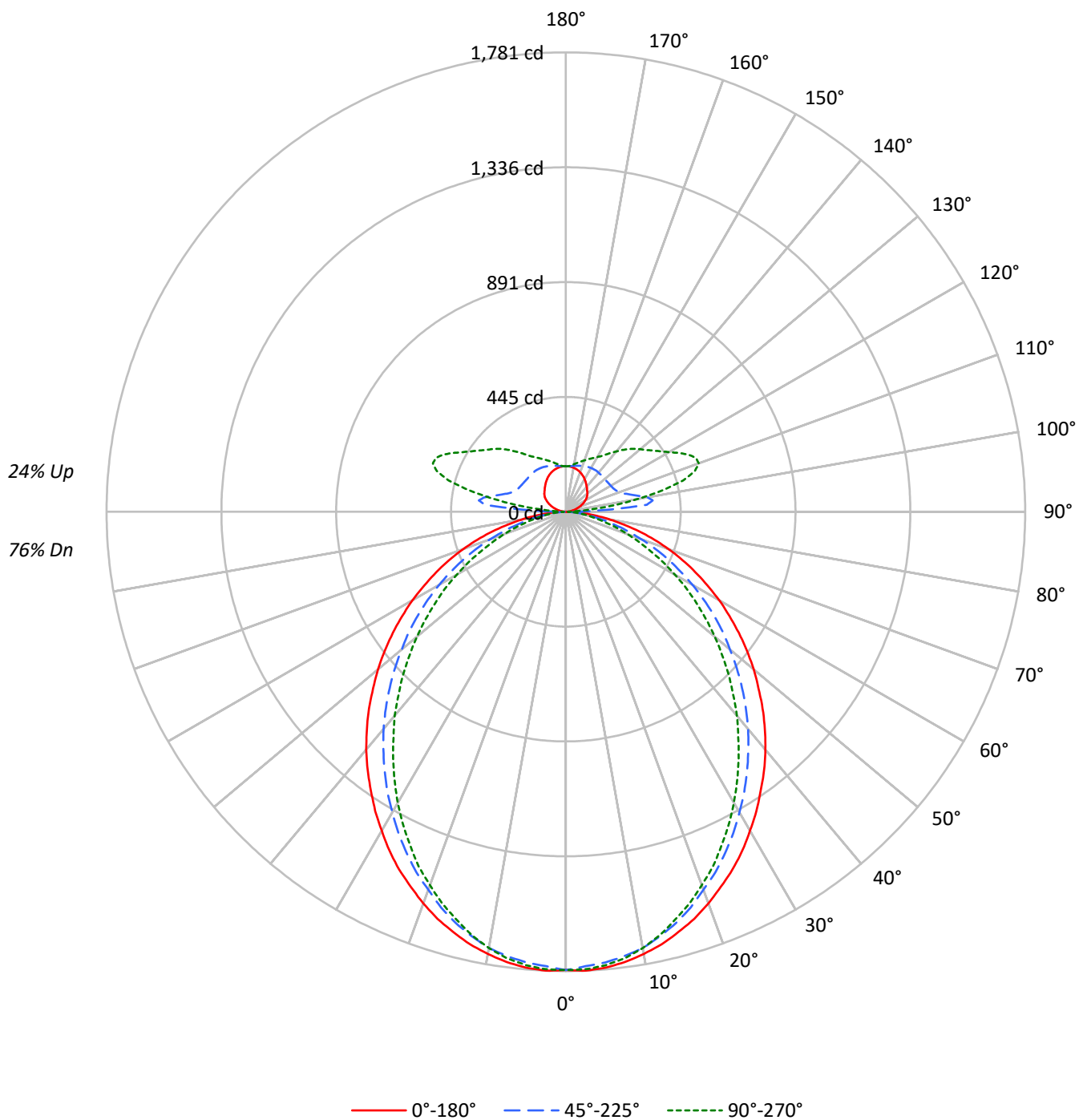
Lumens per Lamp: N/A
Luminaire Lumens: 5525.7 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	68	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°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	3.0
10°-20°	467.3	8.5
20°-30°	677.6	12.3
30°-40°	772.0	14.0
40°-50°	752.5	13.6
50°-60°	633.3	11.5
60°-70°	443.8	8.0
70°-80°	227.5	4.1
80°-90°	57.5	1.0
90°-100°	132.8	2.4
100°-110°	275.8	5.0
110°-120°	257.6	4.7
120°-130°	208.4	3.8
130°-140°	167.5	3.0
140°-150°	126.4	2.3
150°-160°	89.0	1.6
160°-170°	52.5	0.9
170°-180°	17.1	0.3
0°-30°	1312.2	23.7
0°-40°	2084.2	37.7
0°-60°	3470.0	62.8
0°-90°	4198.7	76.0
90°-120°	666.2	12.1
90°-150°	1168.5	21.1
90°-180°	1327.0	24.0
0°-180°	5525.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	0	3	6	7	8	5
95°	12	35	315	143	84	12
105°	40	56	258	507	471	42
115°	72	87	207	446	525	71
125°	100	117	198	355	413	88
135°	117	140	197	297	343	90
145°	136	156	198	246	271	85
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	0.4	3.2	5.7	7.4	8.2
92.5°	5.3	29.2	141.8	37.8	26.3
95°	11.7	34.7	314.9	142.9	83.5
97.5°	18.1	37.5	340.2	258.0	183.1
100°	24.9	43.0	321.0	364.7	277.3
102.5°	32.3	49.2	287.2	455.0	382.5
105°	40.2	56.2	257.7	507.4	471.0
107.5°	47.6	63.4	235.7	522.2	524.3
110°	55.8	71.1	221.1	508.2	548.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.0	78.8	212.6	478.8	545.7
115°	71.8	86.6	206.9	446.0	524.7
117.5°	78.9	94.6	203.7	416.1	493.0
120°	86.0	102.2	201.6	391.0	462.5
122.5°	93.5	109.6	199.8	370.9	435.5
125°	99.5	116.6	198.4	354.8	413.4
127.5°	104.5	123.4	197.6	340.9	393.2
130°	109.1	129.8	196.9	326.8	377.2
132.5°	112.7	135.4	196.9	311.8	361.2
135°	116.6	140.2	196.9	297.4	343.4
137.5°	121.6	144.7	197.3	282.2	324.9
140°	125.8	148.4	197.6	268.4	305.4
142.5°	130.8	152.0	198.0	256.5	287.2
145°	135.8	155.5	197.6	246.2	270.9
147.5°	141.1	158.8	196.9	237.2	256.3
150°	145.7	161.6	195.9	230.0	244.6
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)