

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: P1028497

Luminaire Tested: S125RDIP-B1090D375UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028497
REPORT IS A COMBINATION OF REPORTS P1005032 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB40-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

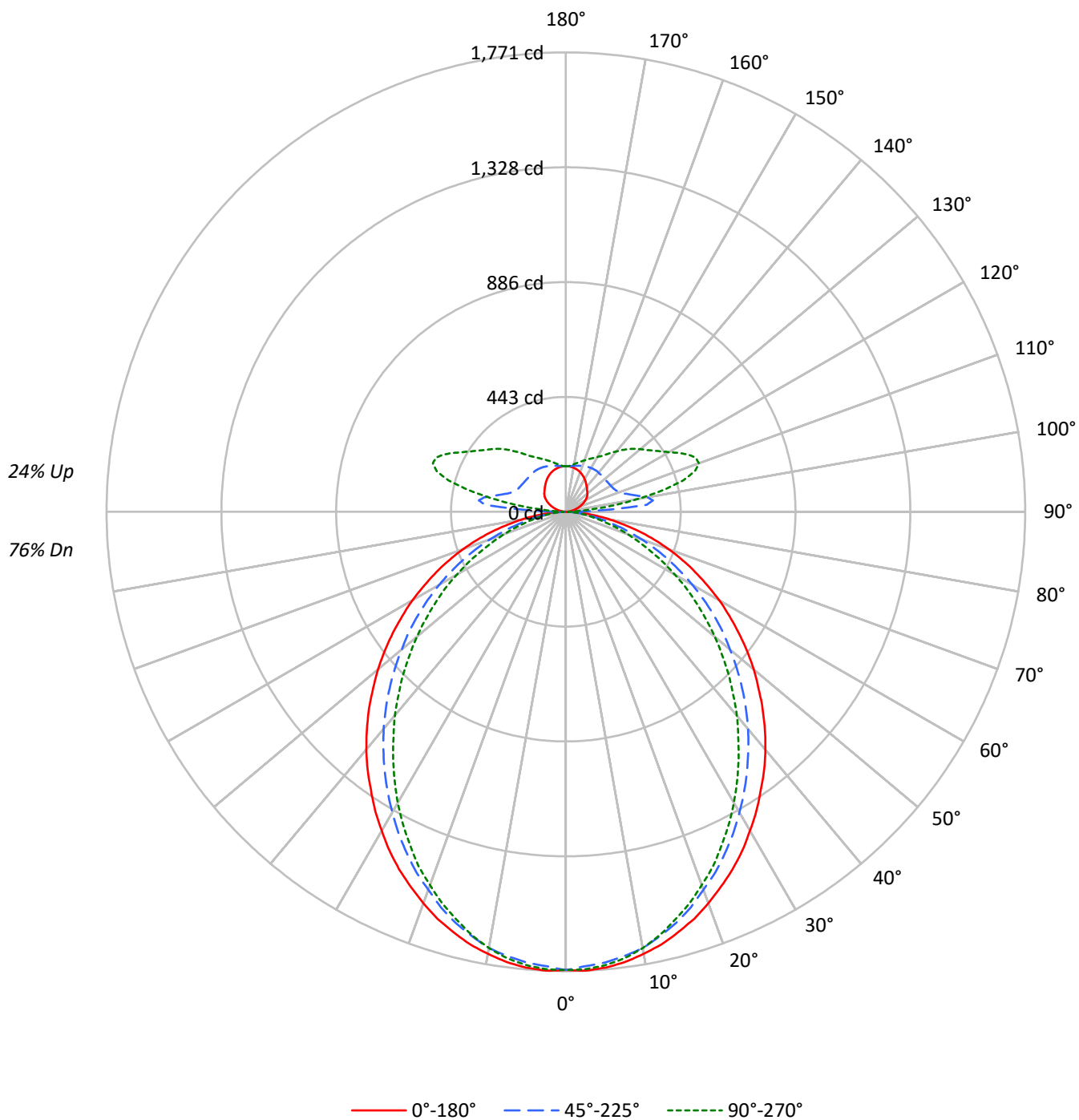
Lumens per Lamp: N/A
Luminaire Lumens: 5494.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	3.0
10°-20°	464.7	8.5
20°-30°	673.8	12.3
30°-40°	767.6	14.0
40°-50°	748.2	13.6
50°-60°	629.6	11.5
60°-70°	441.2	8.0
70°-80°	226.2	4.1
80°-90°	57.1	1.0
90°-100°	132.1	2.4
100°-110°	274.3	5.0
110°-120°	256.2	4.7
120°-130°	207.3	3.8
130°-140°	166.6	3.0
140°-150°	125.7	2.3
150°-160°	88.5	1.6
160°-170°	52.2	0.9
170°-180°	17.0	0.3
0°-30°	1304.7	23.7
0°-40°	2072.3	37.7
0°-60°	3450.1	62.8
0°-90°	4174.7	76.0
90°-120°	662.6	12.1
90°-150°	1162.3	21.2
90°-180°	1320.0	24.0
0°-180°	5494.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	0	3	6	7	8	5
95°	12	34	313	142	83	12
105°	40	56	256	505	468	42
115°	71	86	206	444	522	70
125°	99	116	197	353	411	88
135°	116	140	196	296	342	90
145°	135	155	197	245	269	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
90°	0.4	3.2	5.7	7.4	8.1
92.5°	5.3	29.0	141.1	37.6	26.2
95°	11.7	34.4	313.3	142.2	83.1
97.5°	18.0	37.3	338.4	256.7	182.1
100°	24.8	42.8	319.3	362.8	275.8
102.5°	32.2	49.0	285.7	452.6	380.5
105°	40.0	55.8	256.4	504.8	468.5
107.5°	47.4	63.1	234.4	519.4	521.6
110°	55.5	70.7	219.9	505.4	545.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.6	78.3	211.5	476.3	542.8
115°	71.4	86.1	205.8	443.6	521.9
117.5°	78.5	94.0	202.6	413.9	490.4
120°	85.6	101.6	200.5	389.0	460.0
122.5°	93.0	109.1	198.7	369.0	433.2
125°	99.0	116.0	197.3	352.9	411.2
127.5°	104.0	122.7	196.6	339.1	391.1
130°	108.6	129.1	195.9	325.1	375.2
132.5°	112.1	134.7	195.9	310.1	359.3
135°	116.0	139.5	195.9	295.8	341.6
137.5°	120.9	144.0	196.2	280.8	323.2
140°	125.2	147.6	196.6	267.0	303.7
142.5°	130.1	151.1	197.0	255.1	285.7
145°	135.1	154.7	196.6	244.8	269.4
147.5°	140.4	157.9	195.9	236.0	254.9
150°	145.0	160.7	194.8	228.8	243.3
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)