

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: P1027171

Luminaire Tested: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027171
REPORT IS A COMBINATION OF REPORTS P1005372 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

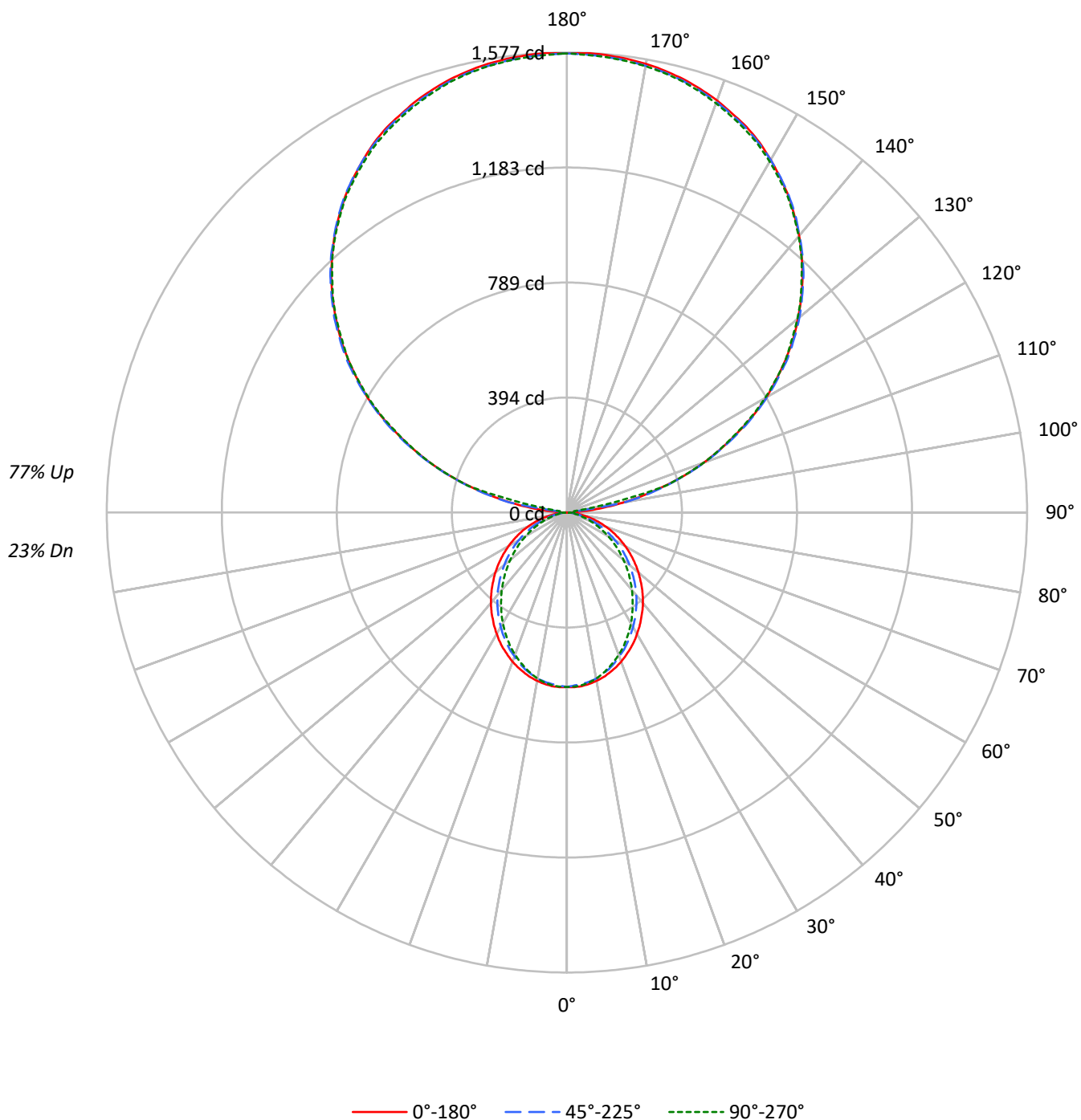
Lumens per Lamp: N/A
Luminaire Lumens: 6249.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	27	27	26			19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22			16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19			14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16			12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14			10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13			9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11			8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	14	13	11	10			7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9			7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3832	3832	3832
5°	3833	3736	3742
10°	3795	3642	3610
15°	3741	3510	3436
20°	3675	3352	3254
25°	3598	3197	3058
30°	3505	3027	2853
35°	3410	2854	2635
40°	3319	2676	2422
45°	3211	2484	2198
50°	3100	2281	1971
55°	2971	2081	1736
60°	2841	1852	1492
65°	2685	1596	1228
70°	2501	1299	967
75°	2251	977	705
80°	1897	632	476
85°	1418	341	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.9
10°-20°	157.3	2.5
20°-30°	228.1	3.6
30°-40°	259.9	4.2
40°-50°	253.3	4.1
50°-60°	213.2	3.4
60°-70°	149.4	2.4
70°-80°	76.6	1.2
80°-90°	21.4	0.3
90°-100°	53.4	0.9
100°-110°	355.1	5.7
110°-120°	639.5	10.2
120°-130°	820.9	13.1
130°-140°	882.9	14.1
140°-150°	828.6	13.3
150°-160°	670.3	10.7
160°-170°	433.5	6.9
170°-180°	149.5	2.4
0°-30°	441.7	7.1
0°-40°	701.5	11.2
0°-60°	1168.0	18.7
0°-90°	1415.4	22.6
90°-120°	1048.1	16.8
90°-150°	3580.4	57.3
90°-180°	4834.0	77.4
0°-180°	6249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	597	595	590	595	594	57
15°	568	565	556	555	551	160
25°	515	508	492	486	481	237
35°	444	433	412	399	393	278
45°	363	350	325	307	300	280
55°	276	261	236	216	208	246
65°	187	171	147	129	122	185
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	10	19	24	28	5
95°	66	63	19	24	24	81
105°	343	348	348	348	346	363
115°	644	650	651	646	639	638
125°	916	924	924	919	916	818
135°	1142	1149	1147	1144	1137	880
145°	1324	1326	1326	1327	1320	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.1	598.1	598.1	598.1	598.1
2.5°	599.4	598.1	593.5	598.1	597.6
5°	597.2	595.3	590.4	594.9	594.0
7.5°	592.6	590.8	585.0	588.6	587.7
10°	585.9	584.5	578.2	579.5	578.2
12.5°	578.2	576.4	567.3	568.2	566.0
15°	567.8	565.1	555.6	555.1	551.1
17.5°	557.0	552.9	541.6	539.3	536.2
20°	543.9	539.3	524.9	522.6	518.6
22.5°	529.4	524.9	509.5	504.6	501.4
25°	514.9	508.2	491.5	485.6	480.6
27.5°	498.7	490.6	472.9	465.3	460.3
30°	480.6	472.0	453.1	442.7	438.6
32.5°	463.0	452.6	433.2	421.4	416.0
35°	443.6	432.7	412.4	399.3	393.0
37.5°	425.1	412.0	391.2	375.8	369.5
40°	405.2	391.6	369.9	352.8	347.4
42.5°	384.4	370.4	347.8	331.6	323.0
45°	363.2	350.1	325.2	307.2	300.4
47.5°	341.0	327.5	302.6	284.1	276.4
50°	320.3	305.4	279.6	260.6	253.9
52.5°	297.7	282.3	258.4	237.6	230.8
55°	275.5	261.1	235.8	215.5	208.2
57.5°	253.0	237.6	213.2	193.3	187.0
60°	231.3	215.5	191.1	171.2	164.4
62.5°	208.2	193.3	168.5	150.4	143.6
65°	186.6	171.2	147.3	129.2	122.4
67.5°	164.9	149.5	126.5	109.3	103.9
70°	142.7	127.4	104.8	90.8	85.4
72.5°	121.1	106.2	85.4	72.7	69.6
75°	99.4	85.8	66.9	56.9	53.8
77.5°	77.2	66.4	50.6	42.9	40.2
80°	58.7	47.9	35.2	31.2	30.3
82.5°	40.7	31.2	23.5	22.1	21.7
85°	24.8	16.7	14.5	14.0	13.6
87.5°	10.4	7.2	6.8	6.8	6.3
90°	1.2	10.5	18.7	24.5	28.0
92.5°	22.2	11.7	18.7	24.5	25.7
95°	66.5	63.0	18.7	24.5	24.5
97.5°	124.8	131.8	21.0	23.3	24.5
100°	194.8	198.3	203.0	29.2	24.5
102.5°	266.0	270.6	273.0	275.3	177.3
105°	342.9	347.6	347.6	347.6	346.4
107.5°	422.3	422.3	424.6	425.8	421.1
110°	499.2	499.2	501.6	498.1	499.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.6	575.1	576.2	571.6	569.2
115°	643.9	649.7	650.9	646.2	639.2
117.5°	719.7	719.7	724.4	717.4	715.0
120°	789.7	788.5	792.0	789.7	783.9
122.5°	851.5	857.4	858.5	856.2	849.2
125°	915.7	923.8	923.8	919.2	915.7
127.5°	977.5	983.3	982.2	979.8	970.5
130°	1033.5	1039.3	1040.5	1037.0	1031.2
132.5°	1089.5	1096.5	1093.0	1093.0	1087.1
135°	1142.0	1149.0	1146.6	1144.3	1137.3
137.5°	1191.0	1198.0	1195.6	1195.6	1189.8
140°	1238.8	1241.1	1240.0	1242.3	1235.3
142.5°	1281.9	1283.1	1285.4	1285.4	1278.5
145°	1323.9	1326.3	1326.3	1327.4	1320.4
147.5°	1361.3	1361.3	1362.4	1363.6	1355.4
150°	1396.3	1393.9	1396.3	1398.6	1389.3
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)