

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: P1027429

Luminaire Tested: S125DIP-B1090D375UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027429
REPORT IS A COMBINATION OF REPORTS P1001389 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

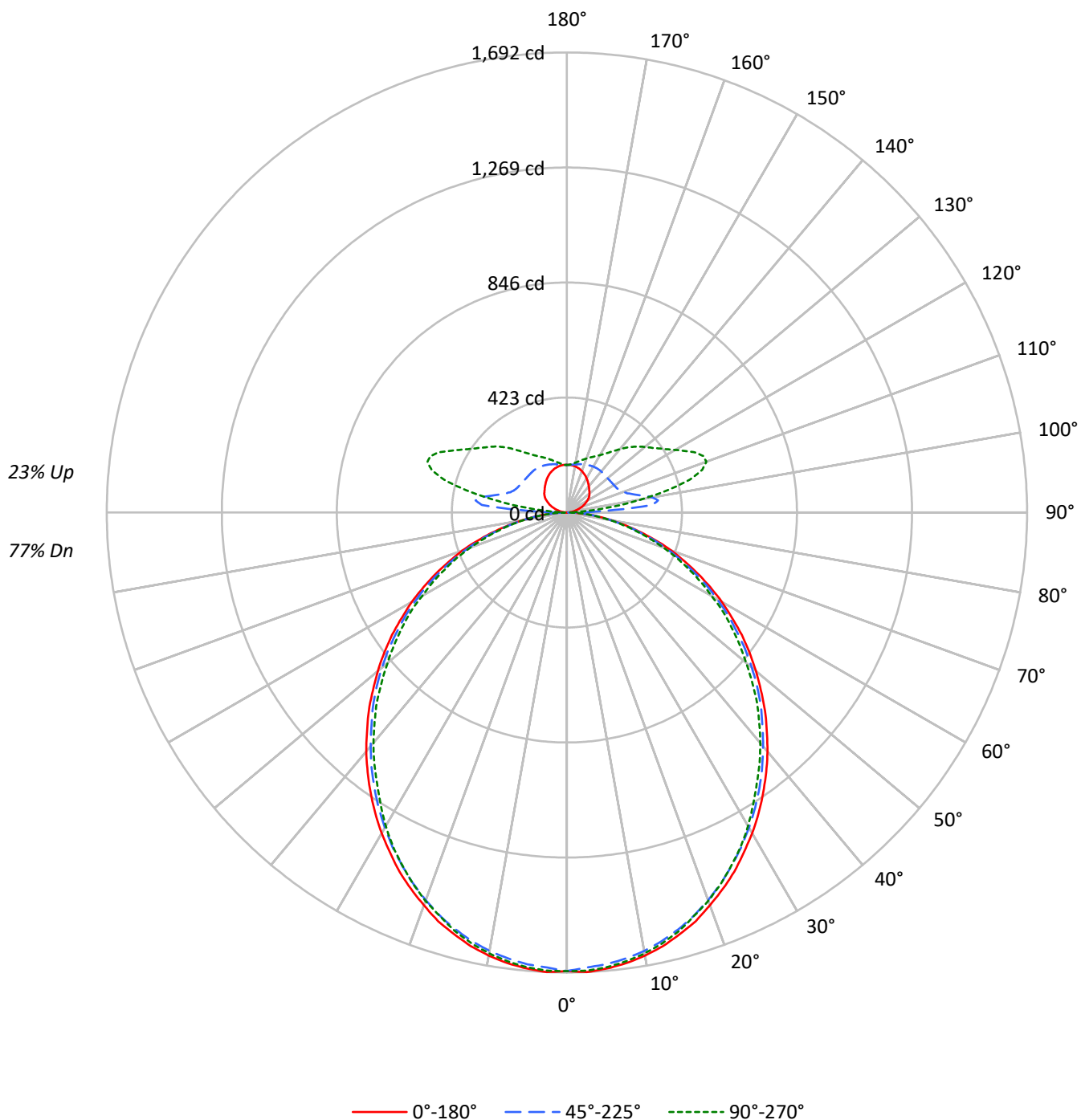
Lumens per Lamp: N/A
Luminaire Lumens: 5710.7 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81			77
1	104	99	95	91	99	95	91	88	86	83	81	78	76	74	71	70	68			65
2	94	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	57			54
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	56	52	49			46
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42			39
5	73	60	52	45	69	58	50	44	53	47	42	49	43	39	45	40	37			34
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32			30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29			26
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26			24
9	54	41	33	28	51	40	32	27	37	30	26	34	29	25	32	27	23			21
10	50	38	30	25	48	36	29	25	34	28	23	32	26	22	29	25	21			19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.8
10°-20°	449.6	7.9
20°-30°	663.7	11.6
30°-40°	774.4	13.6
40°-50°	777.7	13.6
50°-60°	682.7	12.0
60°-70°	508.5	8.9
70°-80°	290.4	5.1
80°-90°	84.5	1.5
90°-100°	132.1	2.3
100°-110°	274.3	4.8
110°-120°	256.2	4.5
120°-130°	207.3	3.6
130°-140°	166.6	2.9
140°-150°	125.7	2.2
150°-160°	88.5	1.6
160°-170°	52.2	0.9
170°-180°	17.0	0.3
0°-30°	1272.4	22.3
0°-40°	2046.8	35.8
0°-60°	3507.2	61.4
0°-90°	4390.7	76.9
90°-120°	662.6	11.6
90°-150°	1162.3	20.4
90°-180°	1320.0	23.1
0°-180°	5710.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	0	3	6	7	8	6
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°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
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)