

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: P999306

Luminaire Tested: SA2XXRDIP-B1005D1080UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999306
REPORT IS A COMBINATION OF REPORTS P987857 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D1080UB50-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

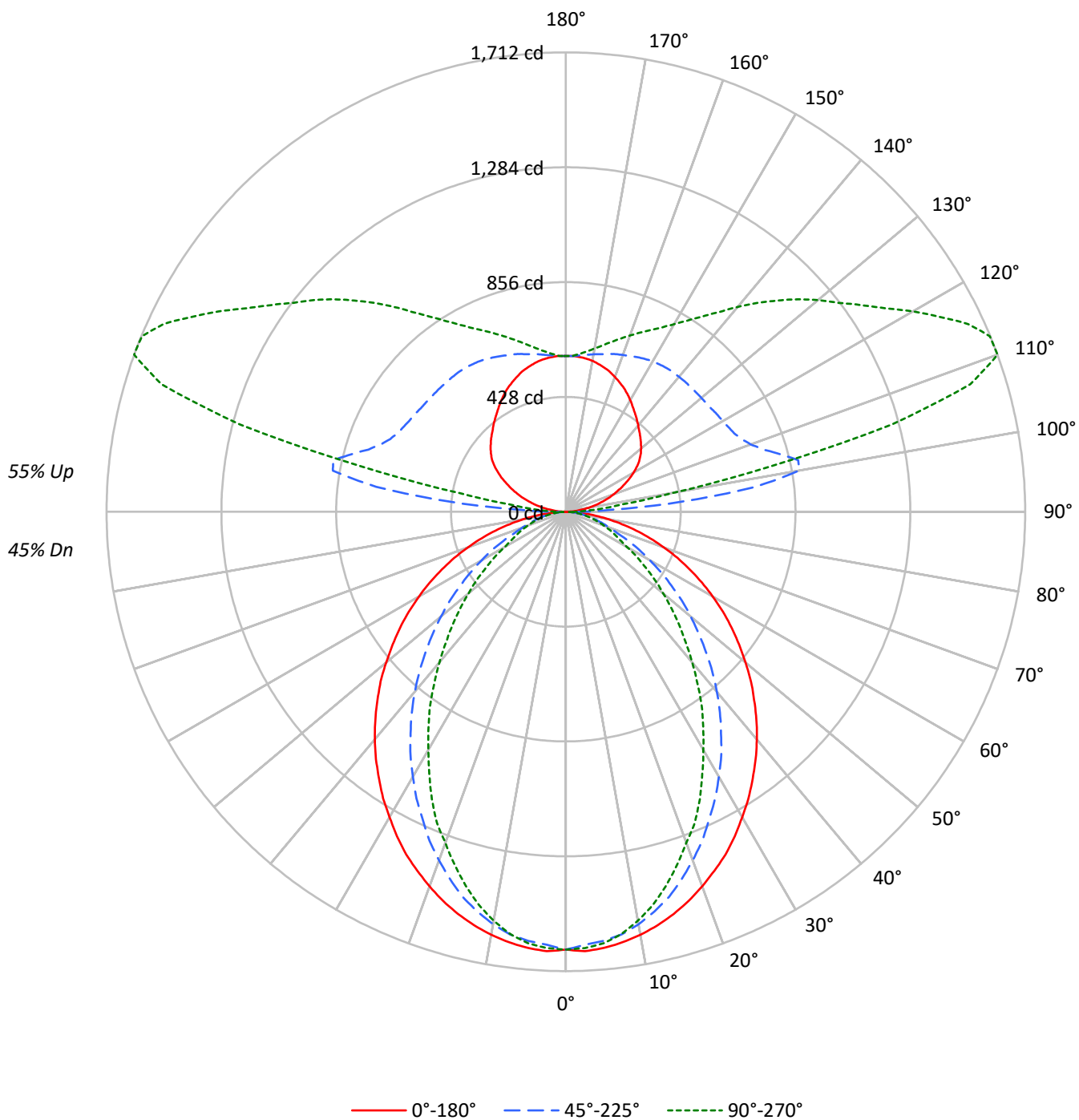
Lumens per Lamp: N/A
Luminaire Lumens: 7406.6 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	86	82	80	71	69	67	58	57	56	46	46	45
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29
5	69	57	50	44	63	53	46	41	45	40	36	37	34	31	30	28	25
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20
8	54	42	35	30	50	39	33	28	34	29	25	28	24	21	23	20	18
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25872	24574	24392
10°	25617	23307	22538
15°	25266	21811	20425
20°	24800	20110	18215
25°	24322	18365	16192
30°	23681	16665	13984
35°	23054	14951	12087
40°	22417	13268	10134
45°	21674	11530	8430
50°	20905	9854	6862
55°	20107	8179	5449
60°	19178	6541	4123
65°	18112	4988	3351
70°	16820	3618	2664
75°	15199	2759	2035
80°	12854	1868	1367
85°	8970	857	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	2.1
10°-20°	419.8	5.7
20°-30°	589.4	8.0
30°-40°	642.5	8.7
40°-50°	590.5	8.0
50°-60°	463.8	6.3
60°-70°	301.9	4.1
70°-80°	155.4	2.1
80°-90°	43.4	0.6
90°-100°	235.3	3.2
100°-110°	795.5	10.7
110°-120°	836.1	11.3
120°-130°	687.6	9.3
130°-140°	552.5	7.5
140°-150°	417.4	5.6
150°-160°	293.4	4.0
160°-170°	172.8	2.3
170°-180°	56.2	0.8
0°-30°	1162.2	15.7
0°-40°	1804.7	24.4
0°-60°	2859.0	38.6
0°-90°	3359.7	45.4
90°-120°	1866.9	25.2
90°-150°	3524.5	47.6
90°-180°	4047.0	54.6
0°-180°	7406.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	73
90°	1	15	38	36	37	6
95°	39	96	438	165	127	40
105°	136	205	827	1478	1258	145
115°	240	303	692	1428	1655	238
125°	335	396	665	1157	1343	298
135°	393	469	658	972	1113	304
145°	449	516	654	812	888	282
155°	510	551	635	718	747	235
165°	556	573	608	645	655	157
175°	579	580	585	592	590	55
180°	580	580	580	580	580	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1639.2	1631.8	1615.6	1630.3	1627.4
5°	1631.8	1624.4	1605.2	1618.5	1614.1
7.5°	1618.5	1609.6	1589.0	1594.9	1587.5
10°	1600.8	1590.4	1560.9	1556.5	1547.6
12.5°	1578.6	1565.3	1525.5	1516.6	1500.4
15°	1552.1	1535.8	1485.6	1457.5	1442.8
17.5°	1521.0	1497.4	1435.4	1402.9	1379.3
20°	1485.6	1456.1	1382.2	1345.3	1312.8
22.5°	1447.2	1413.2	1327.6	1277.4	1255.2
25°	1408.8	1361.6	1264.1	1203.5	1181.4
27.5°	1363.0	1312.8	1205.0	1135.6	1101.6
30°	1314.3	1258.2	1140.0	1064.7	1024.9
32.5°	1267.0	1199.1	1078.0	989.4	952.5
35°	1213.9	1138.6	1008.6	915.6	883.1
37.5°	1162.2	1081.0	943.6	841.7	804.8
40°	1107.6	1019.0	875.7	770.9	732.5
42.5°	1051.4	956.9	807.8	698.5	661.6
45°	992.4	893.4	738.4	633.5	598.1
47.5°	936.3	831.4	671.9	567.1	534.6
50°	874.2	769.4	606.9	505.0	474.0
52.5°	813.7	702.9	544.9	447.5	419.4
55°	754.6	639.4	479.9	391.3	363.3
57.5°	694.1	575.9	422.3	339.7	316.0
60°	632.0	513.9	361.8	286.5	262.9
62.5°	571.5	453.4	310.1	239.2	227.4
65°	509.5	389.9	257.0	206.7	202.3
67.5°	450.4	330.8	206.7	181.6	177.2
70°	388.4	273.2	171.3	156.5	150.6
72.5°	329.3	220.0	143.2	131.4	128.5
75°	271.7	168.3	118.1	107.8	106.3
77.5°	214.1	119.6	93.0	87.1	84.2
80°	161.0	85.7	70.9	65.0	65.0
82.5°	112.2	57.6	48.7	45.8	45.8
85°	63.5	32.5	28.1	28.1	28.1
87.5°	23.6	11.8	11.8	10.3	10.3
90°	1.1	15.0	38.0	36.2	36.8
92.5°	16.7	53.0	171.9	79.2	68.1
95°	39.1	96.0	437.6	165.2	127.3
97.5°	58.0	126.7	713.3	331.5	213.2
100°	86.0	155.2	881.8	660.2	399.6
102.5°	111.6	180.8	887.4	1116.2	779.1
105°	136.2	205.4	827.1	1478.5	1258.0
107.5°	163.0	230.0	771.3	1609.6	1580.6
110°	189.8	255.0	733.4	1588.4	1712.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.3	279.0	708.8	1516.4	1710.1
115°	240.0	303.0	692.1	1428.2	1655.4
117.5°	266.8	327.0	683.1	1344.0	1572.8
120°	291.3	350.5	675.3	1268.6	1493.5
122.5°	314.8	374.5	670.9	1210.1	1410.9
125°	334.9	396.2	665.3	1157.0	1342.8
127.5°	351.6	416.9	661.9	1111.8	1279.2
130°	366.1	435.4	659.7	1066.1	1226.8
132.5°	379.5	453.2	658.6	1018.6	1172.1
135°	392.9	468.8	657.5	972.2	1112.9
137.5°	405.2	482.2	657.5	925.4	1056.0
140°	419.7	494.5	656.4	884.0	996.8
142.5°	434.2	504.6	656.4	844.4	937.7
145°	448.7	515.7	654.1	812.1	888.5
147.5°	464.4	524.6	650.8	783.6	845.0
150°	480.0	533.6	647.4	759.0	807.0
152.5°	495.6	542.5	641.8	738.4	774.7
155°	510.1	550.8	635.1	718.3	746.8
157.5°	522.4	557.6	628.4	699.3	722.2
160°	534.7	564.2	621.8	680.3	698.8
162.5°	547.0	569.3	616.2	662.5	676.4
165°	555.9	572.6	608.4	645.2	655.2
167.5°	563.7	576.0	601.7	629.6	635.1
170°	571.5	577.6	596.1	615.0	617.3
172.5°	576.0	579.4	589.4	602.2	602.8
175°	579.3	579.9	584.9	592.2	590.5
177.5°	581.6	580.5	580.5	584.9	581.6
180°	580.5	580.5	580.5	580.5	580.5

(END OF REPORT)